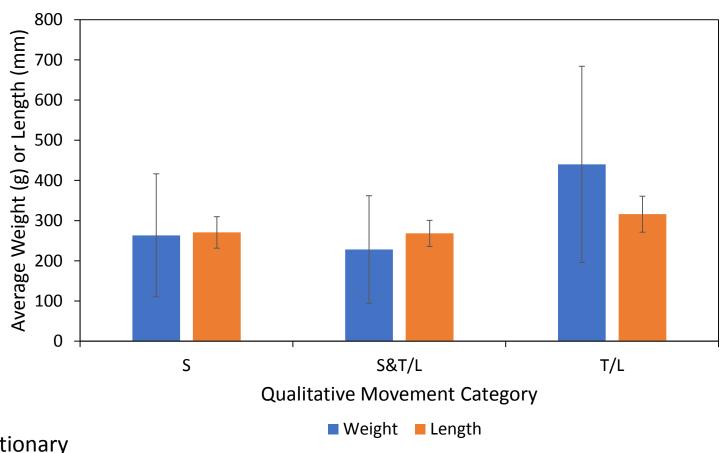
Number of Fish Detected

Tracking Study Data Period	Number of Fish Detected
0 to 3 Months	40
3 to 6 Months	27
6 to 9 Months	25
9-Month Data Download Event (Jan. 14 to 18, 2019)	12

Number of Fish in each Qualitative Movement Category

Qualitative Movement Category	Number
Predominantly Stationary (S)	20
Stationary with Traveling and/or Leaving Study Area (S&T/L)	16
Predominantly Traveling and/or Leaving Study Area (T/L)	4

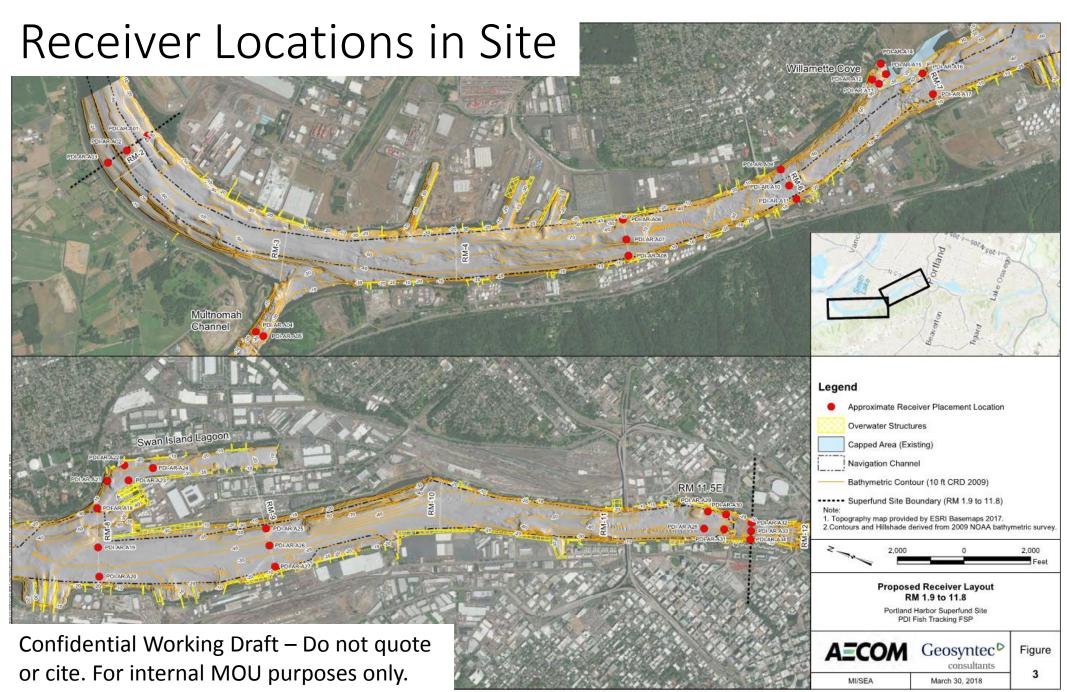
Fish Characteristics by Qualitative Movement Category

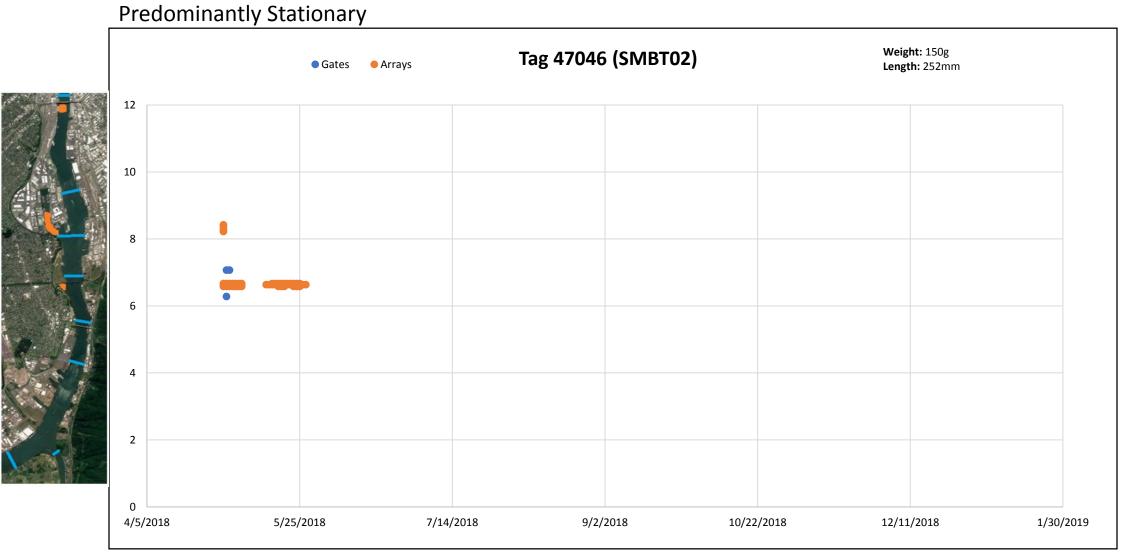


S = Predominantly Stationary S&T/L = Stationary with Traveling and/or Leaving Study Area T/L = Predominantly Traveling and/or Leaving Study Area

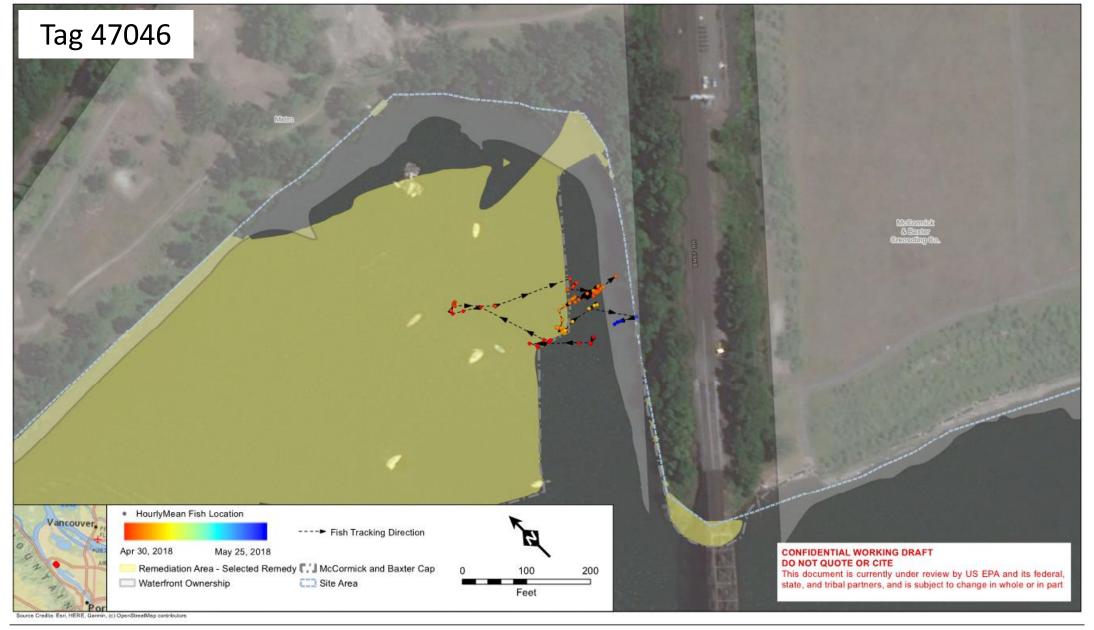
Fish Movement Daily Detection Summary Plots

- Plots represent which receiver gates and/or arrays detected a fish on any given day
- Detection summaries do not estimate actual position of fish
 - Presence/absence only
- Estimates of actual fish position only available near high-resolution arrays
 - Willamette Cove (RM 6.5E)
 - Swan Island Lagoon (RM 8E)
 - RM 11.5E

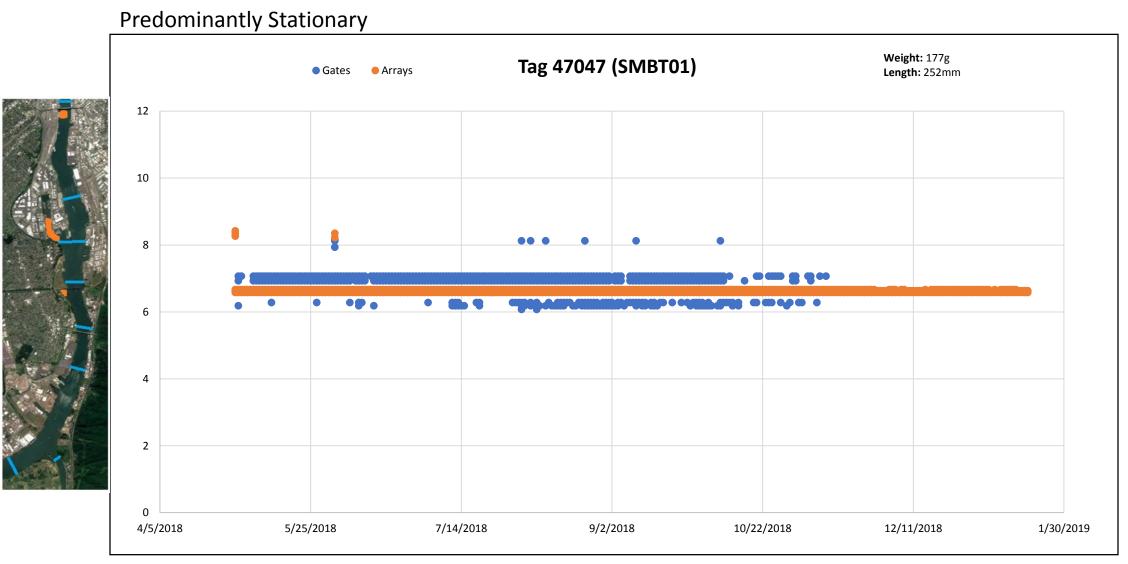




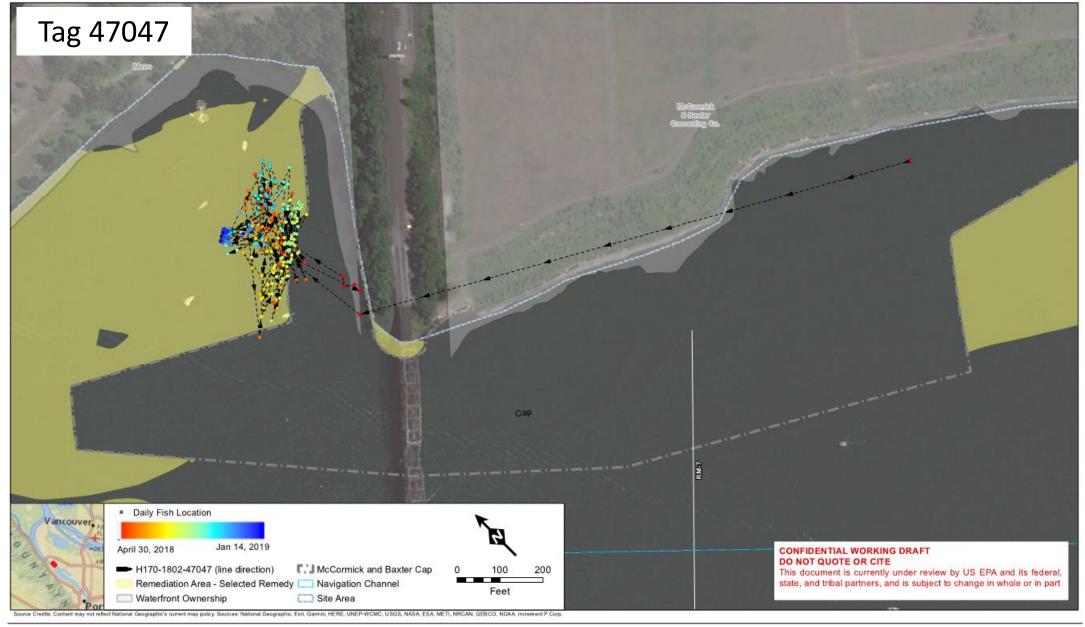
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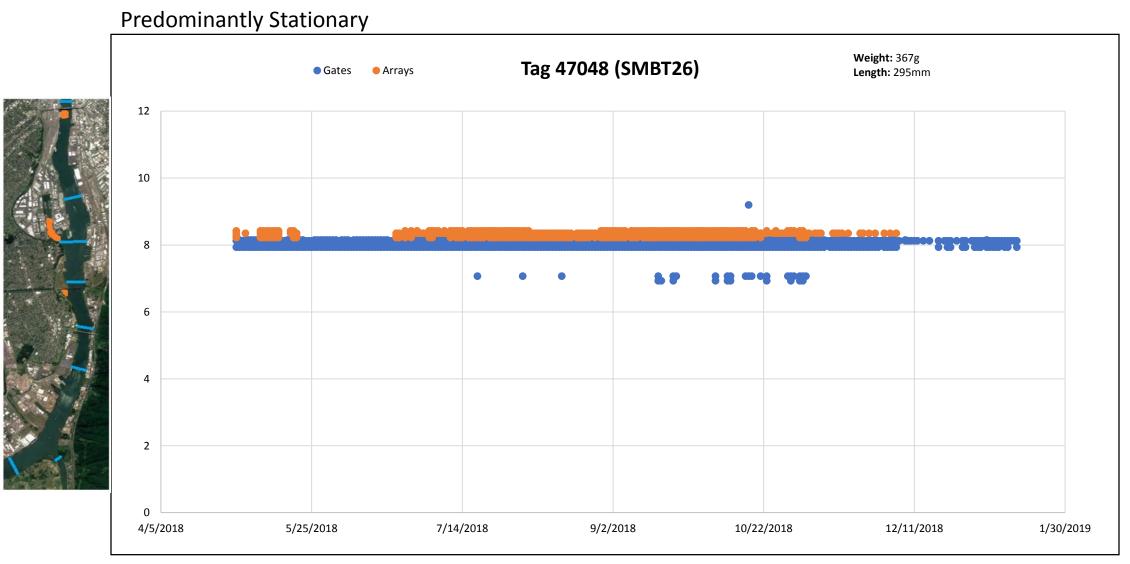
Fish Movement for 47046, Hourly Mean Portland Harbor Superfund Site



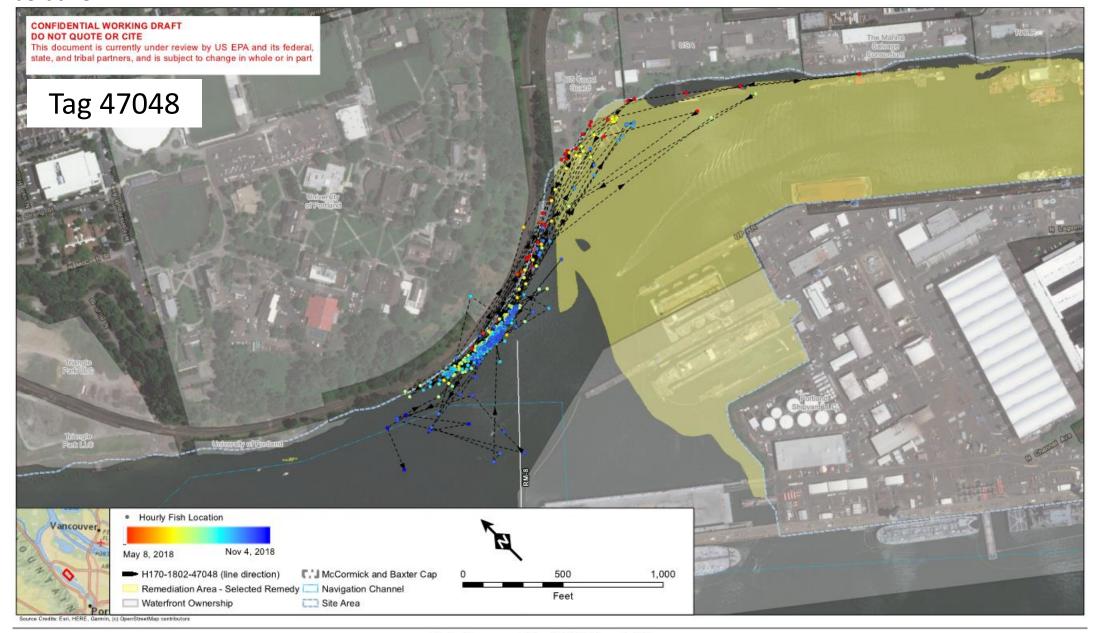
Confidential Working Draft – Do not quote or cite. For internal MOU purposes only.



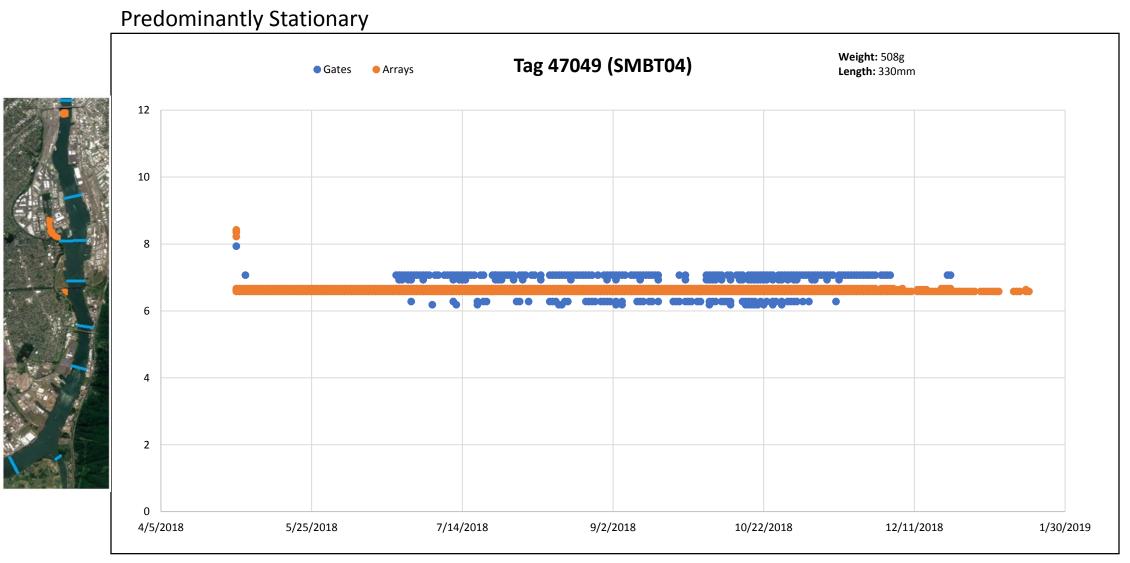
Fish Movement for 47047, Daily Mean Portland Harbor Superfund Site



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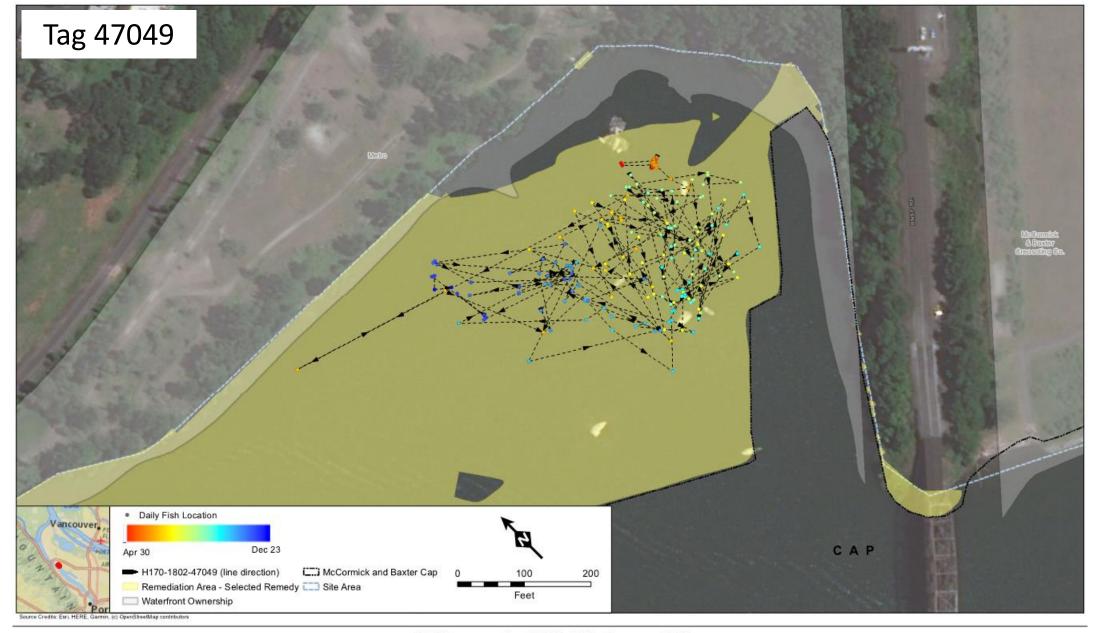


Fish Movement for 47048, Hourly Mean Portland Harbor Superfund Site



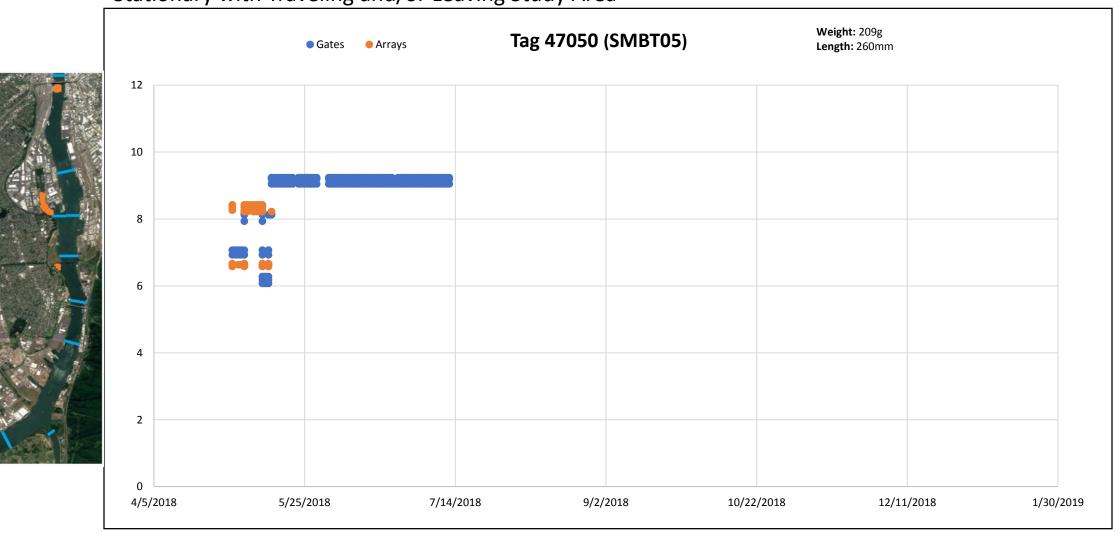
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Fish Movement for 47049, Daily Average, 2018

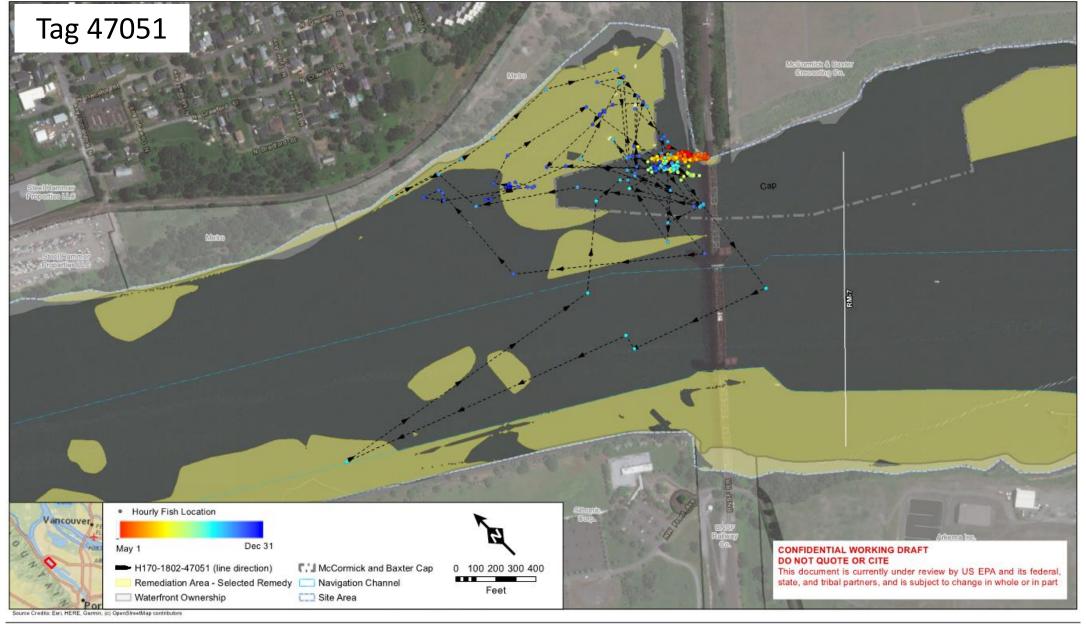
Portland Harbor Superfund Site



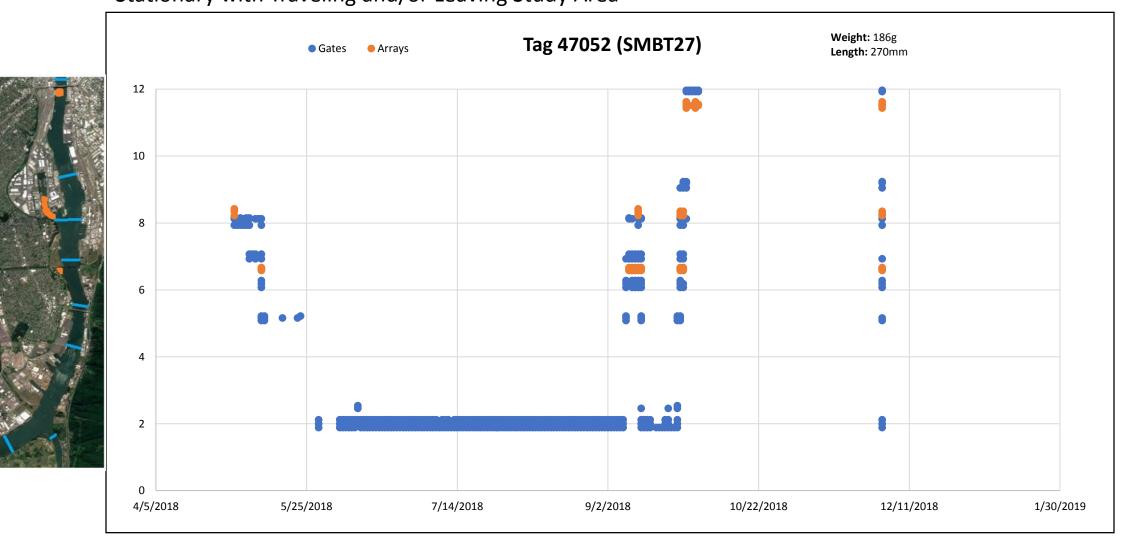
Limited fish location data for 47050 (SMBT05) from the receiver arrays. No location map developed.

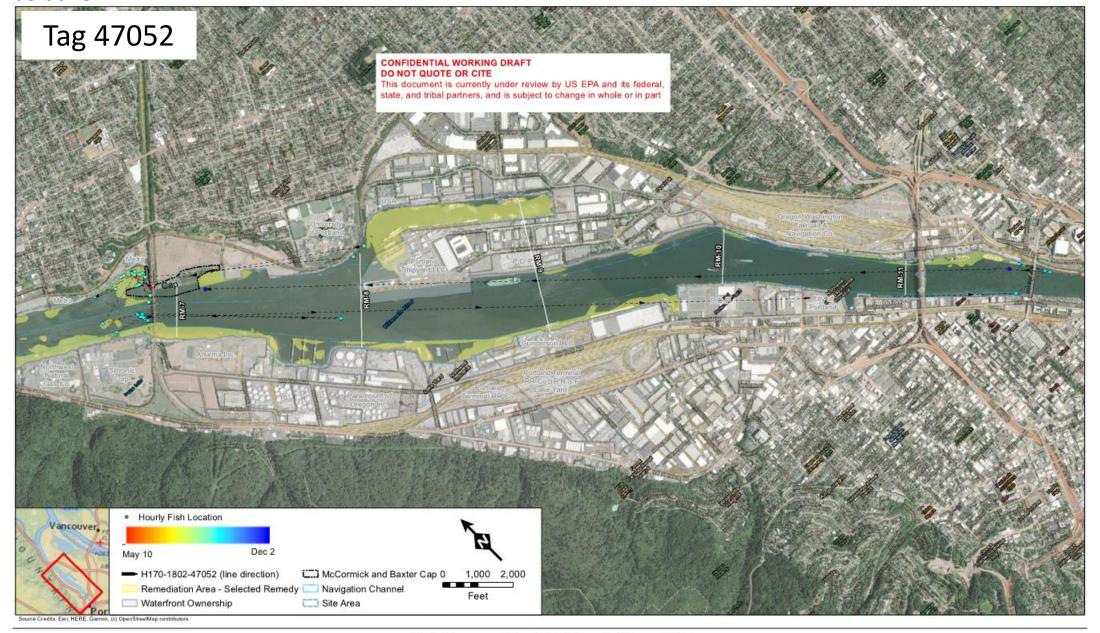
Predominantly Stationary Tag 47051 (SMBT06) Weight: 127g GatesArrays Length: 233mm 12 4/5/2018 5/25/2018 7/14/2018 9/2/2018 10/22/2018 12/11/2018 1/30/2019

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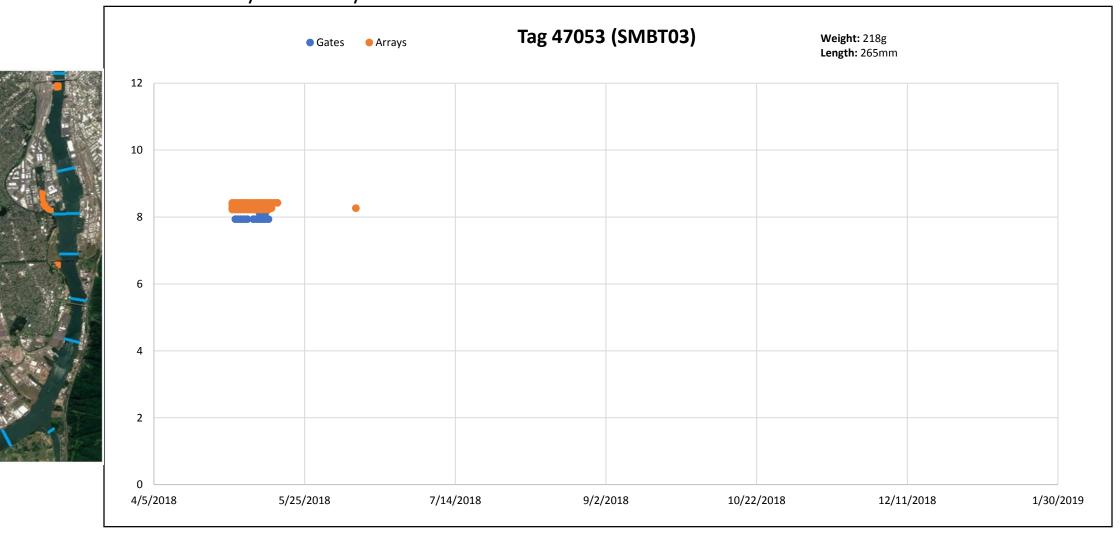
Fish Movement for 47051, Hourly Mean, 2018
Portland Harbor Superfund Site





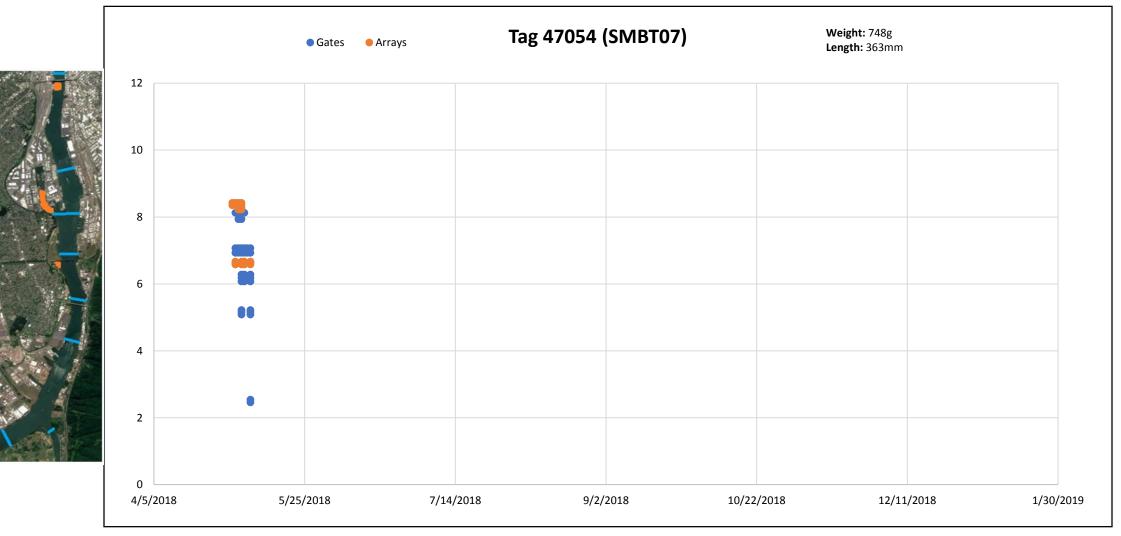
Fish Movement for 47052, Hourly Mean, 2018
Portland Harbor Superfund Site

Predominantly Stationary

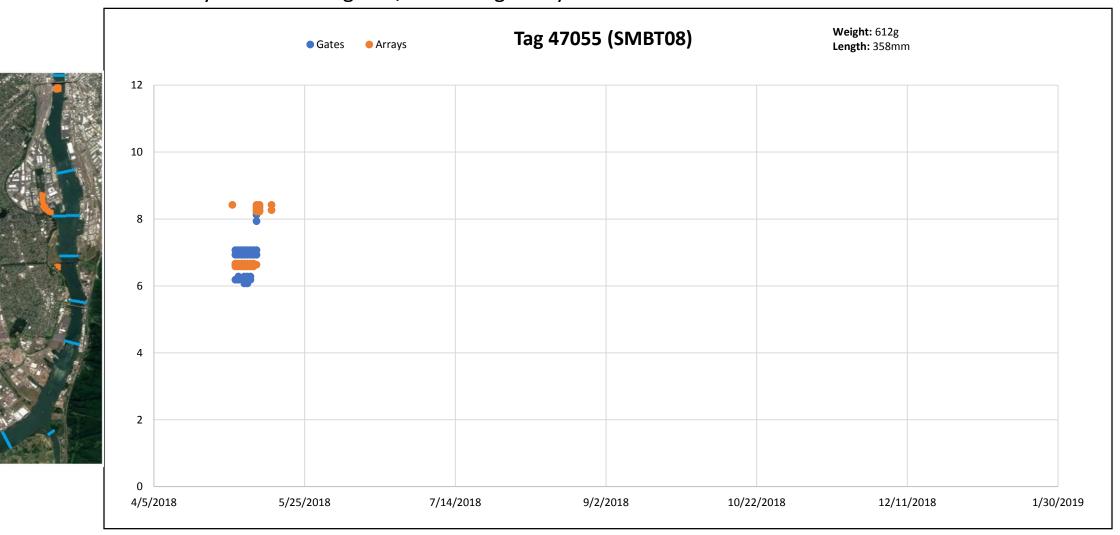


Limited fish location data for 47053 (SMBT03) from the receiver arrays. No location map developed.

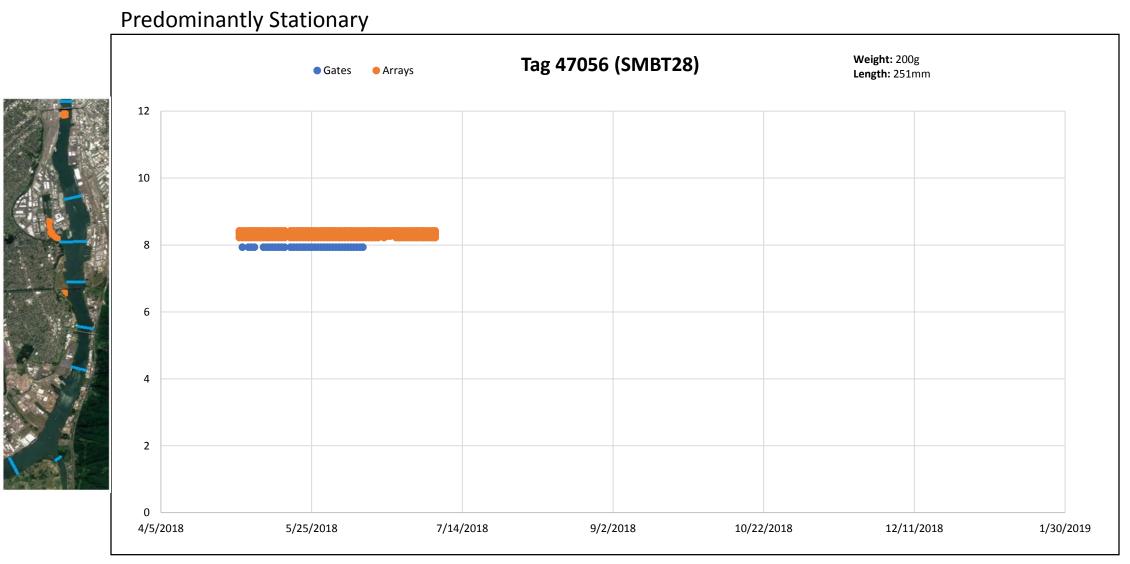
Predominantly Traveling and/or Leaving Study Area

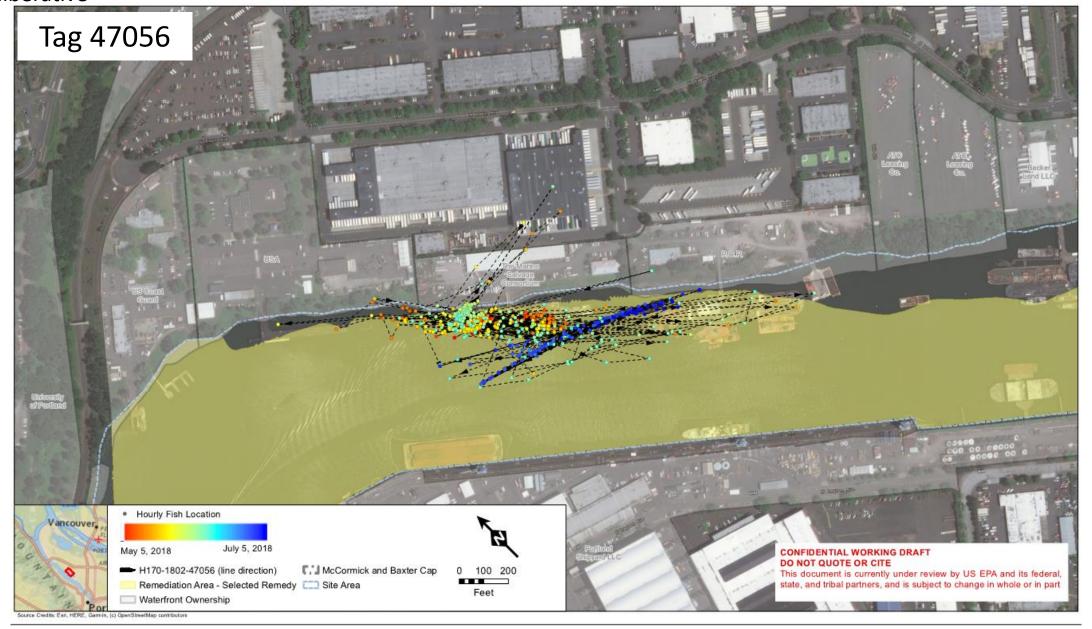


Limited fish location data for 47054 (SMBT07) from the receiver arrays. No location map developed.

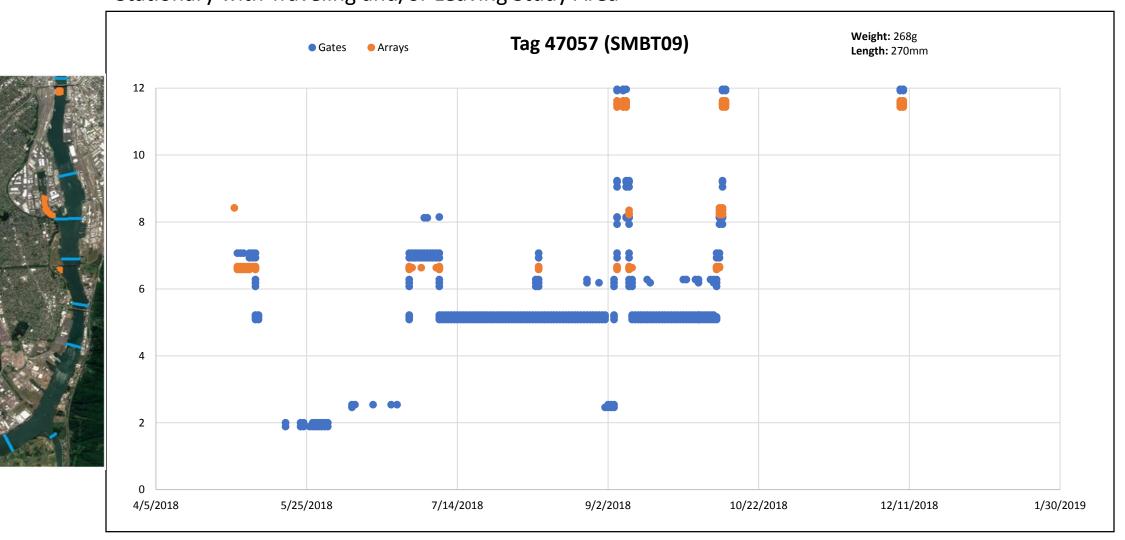


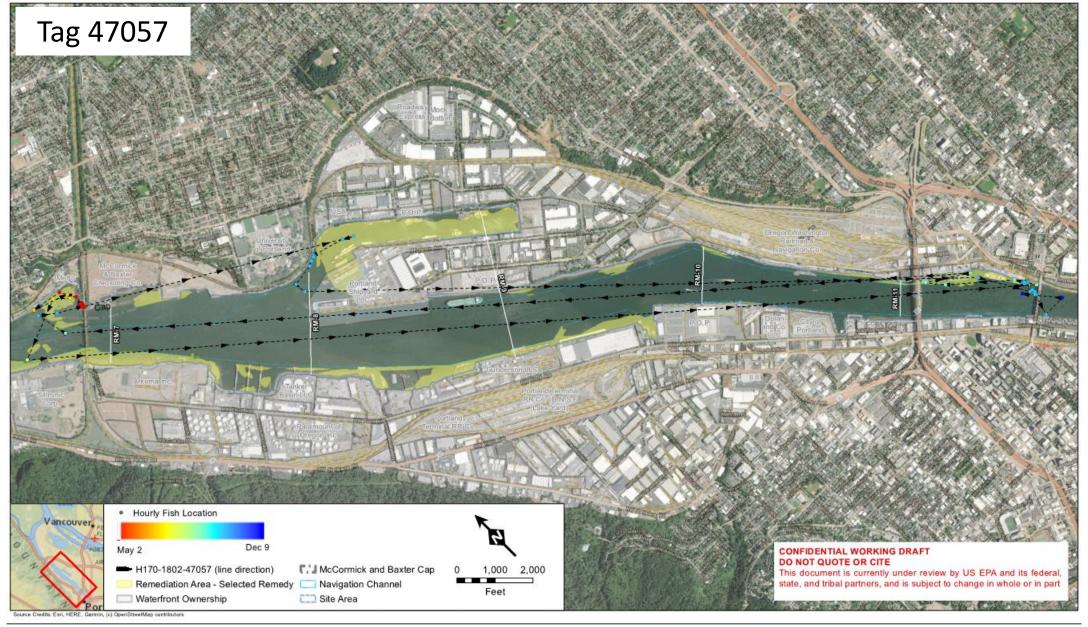
Limited fish location data for 47055 (SMBT08) from the receiver arrays. No location map developed.



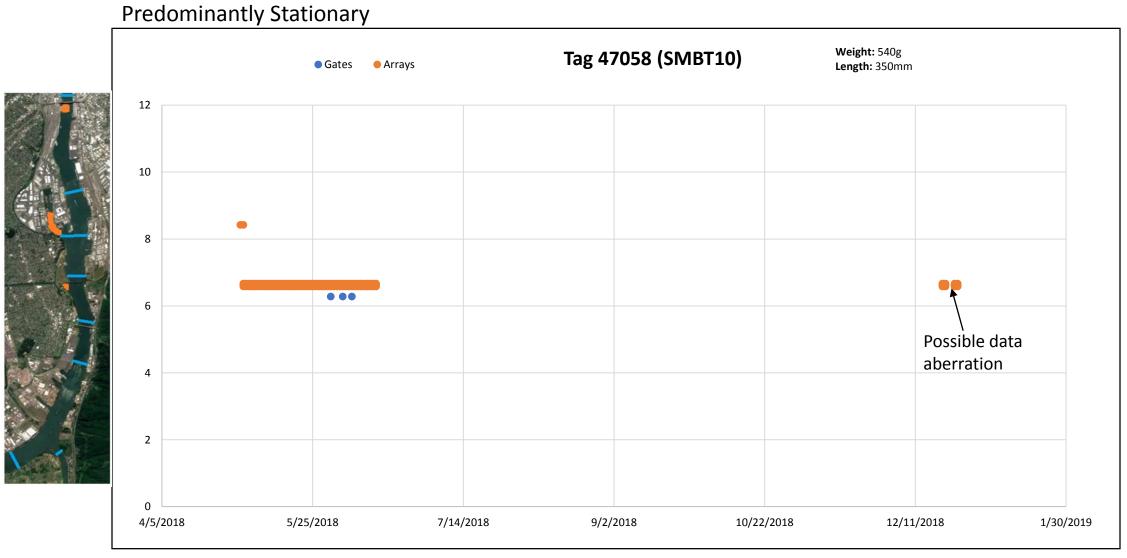


Fish Movement for 47056, Hourly Mean Portland Harbor Superfund Site

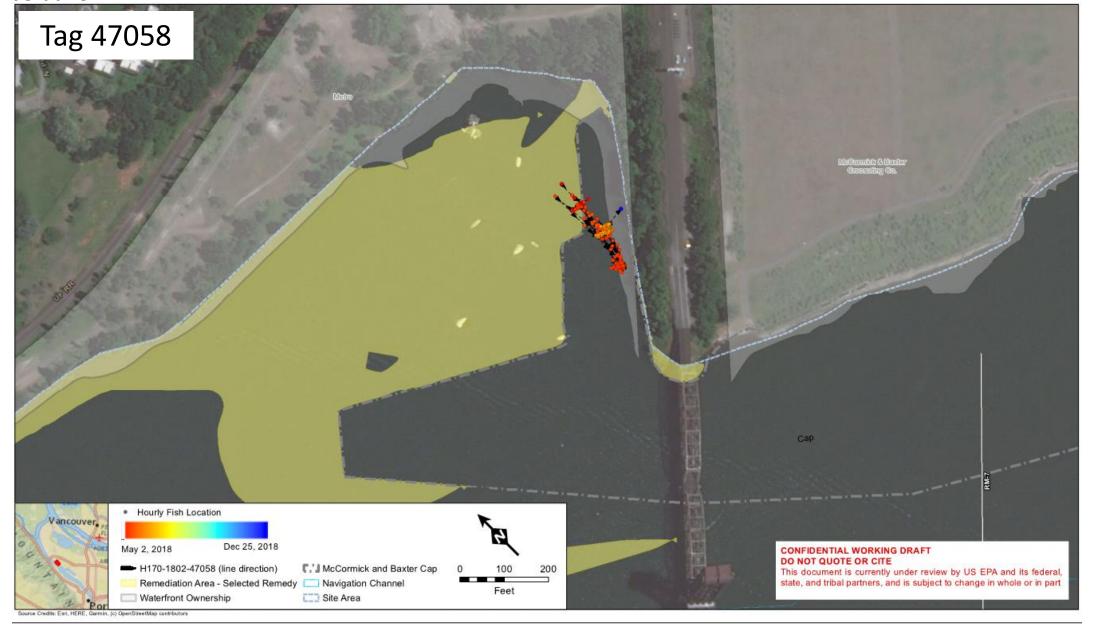




Fish Movement for 47057, Hourly Mean, 2018
Portland Harbor Superfund Site

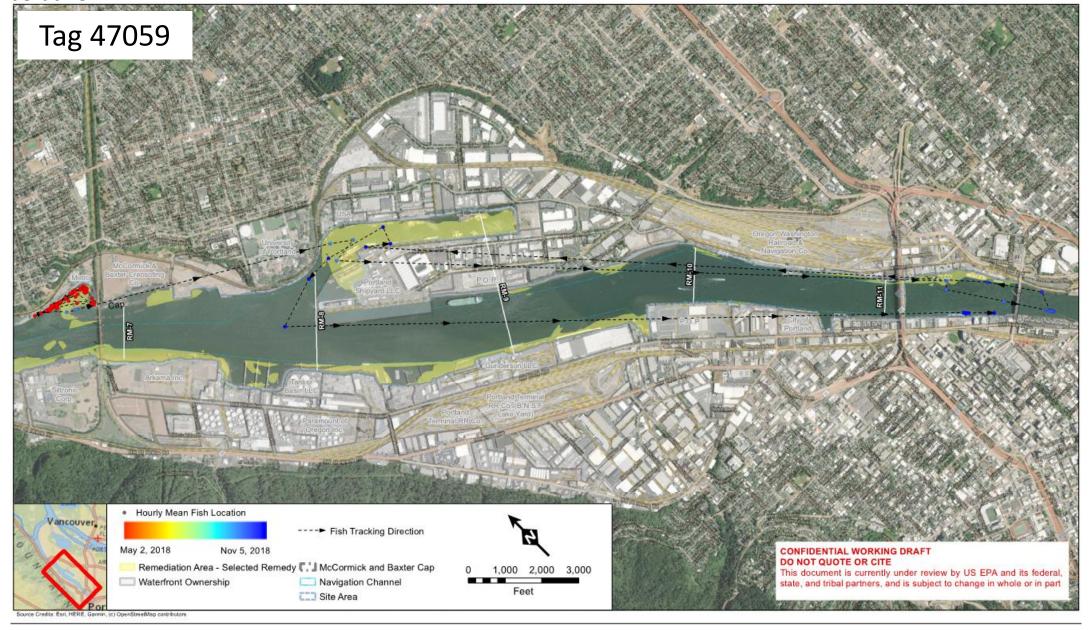


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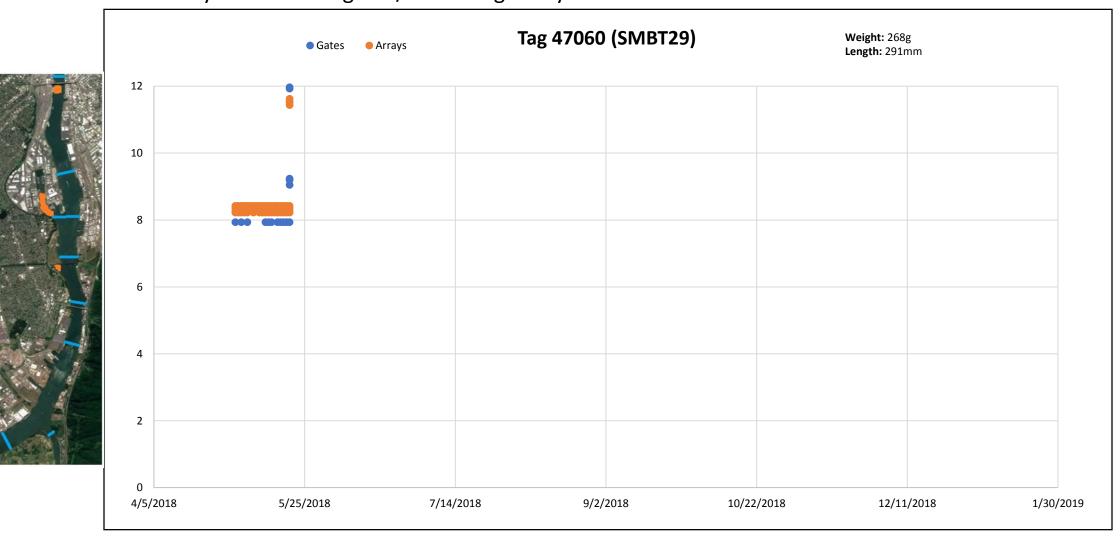


Fish Movement for 47058, Hourly Mean Portland Harbor Superfund Site

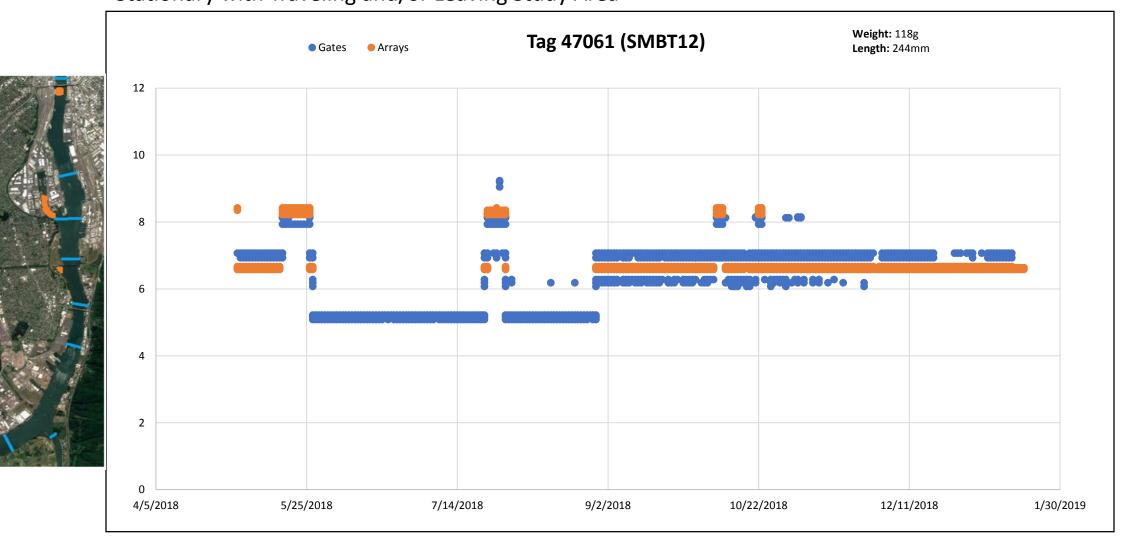


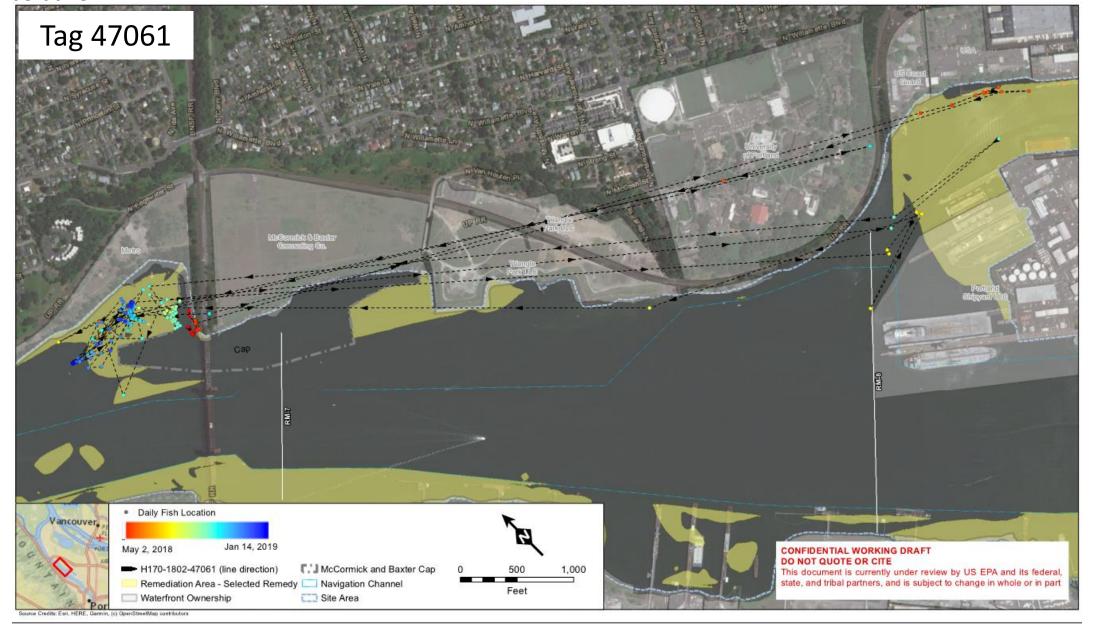


Fish Movement for 47059, Hourly Mean Portland Harbor Superfund Site

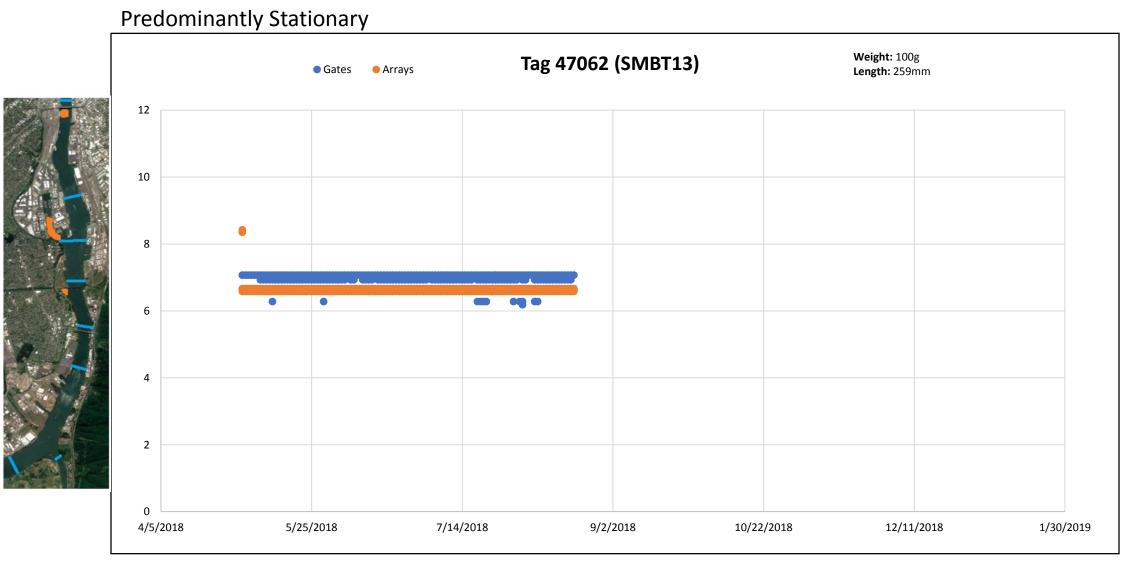


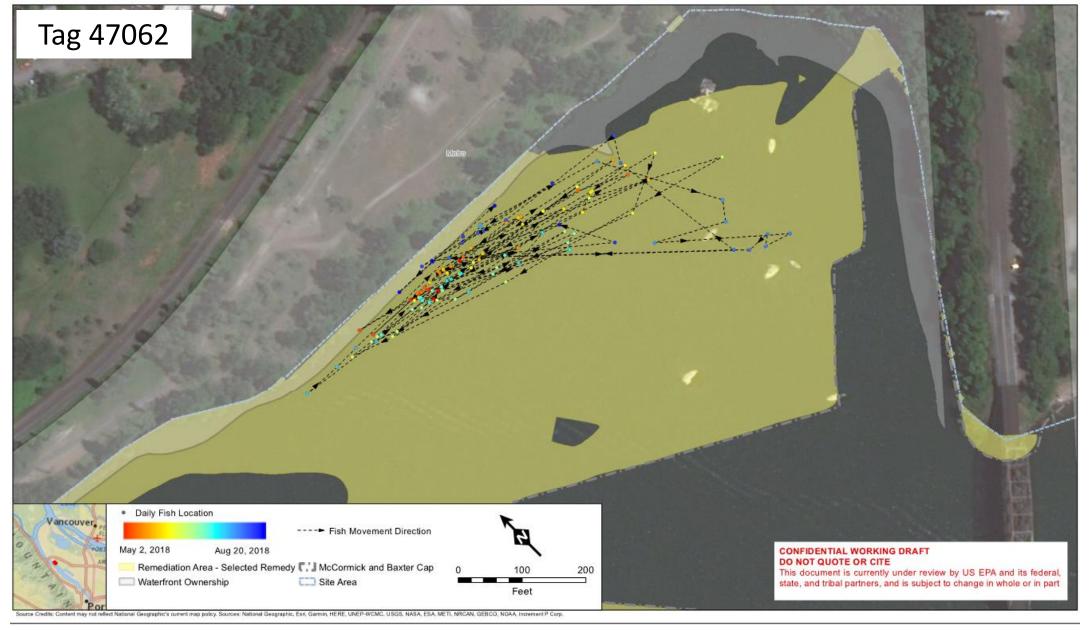
Limited fish location data for 47060 (SMBT29) from the receiver arrays. No location map developed.



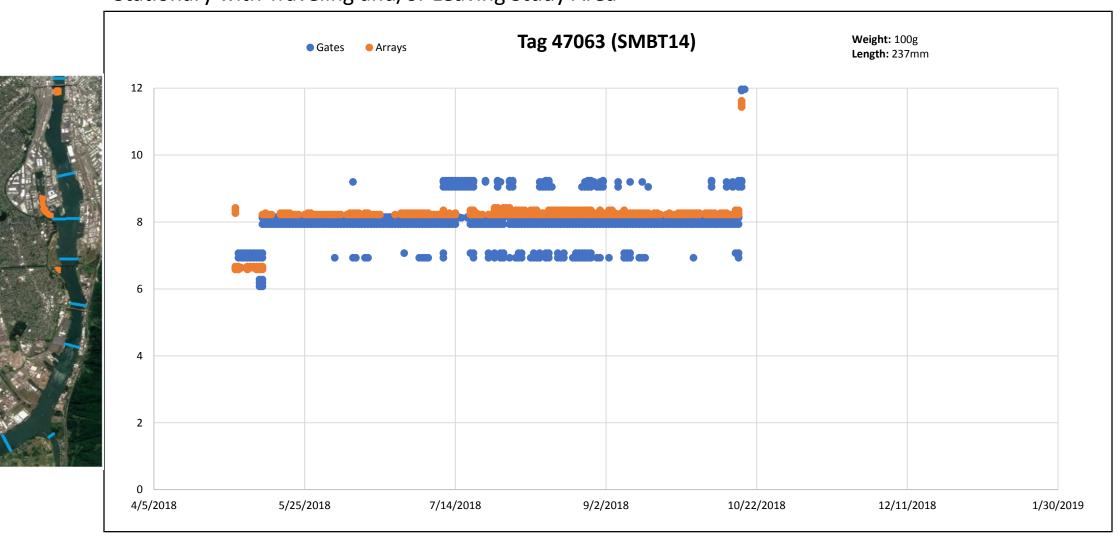


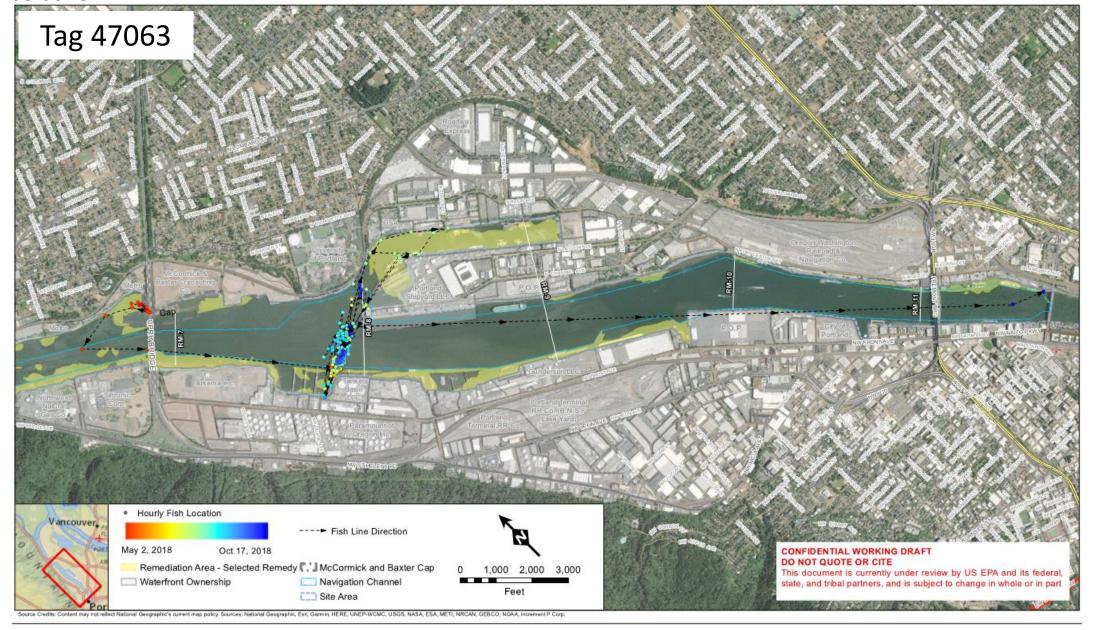
Fish Movement for 47061, Daily Mean Portland Harbor Superfund Site



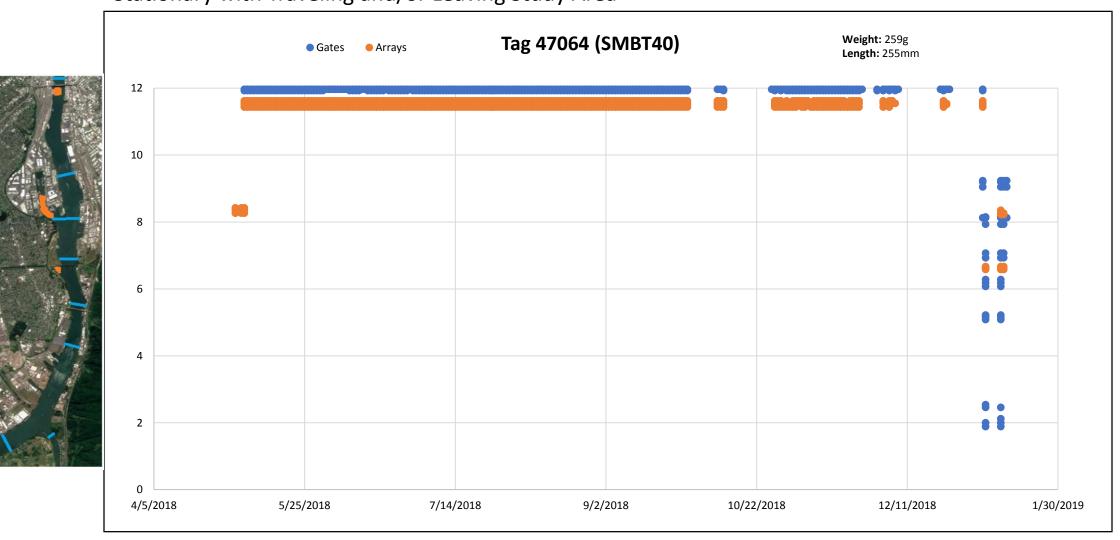


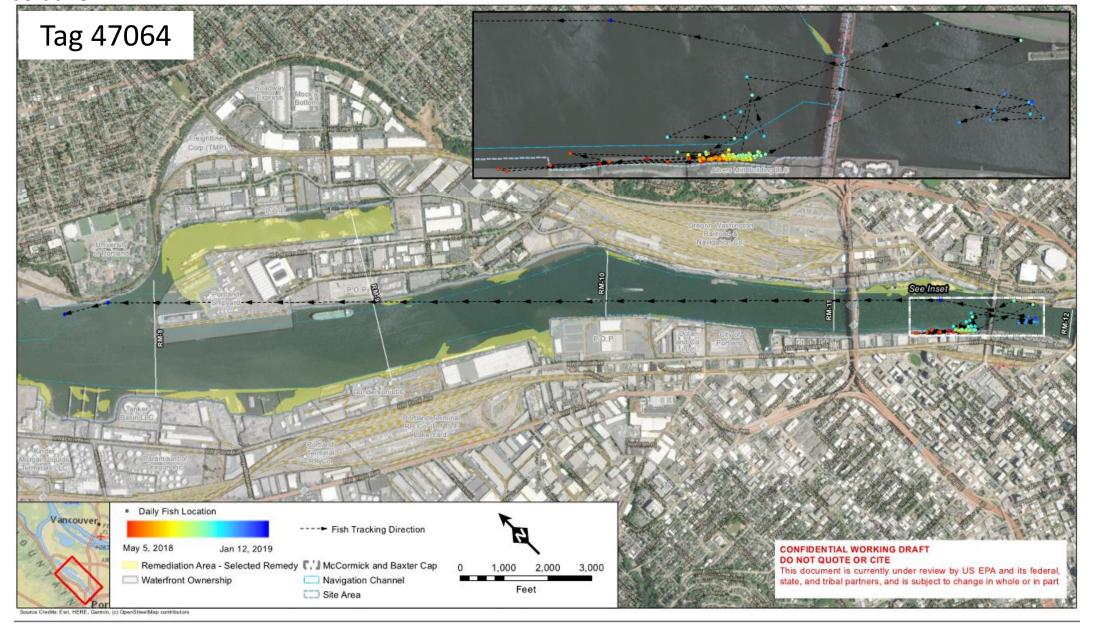
Fish Movement for 47062, Daily Mean Portland Harbor Superfund Site



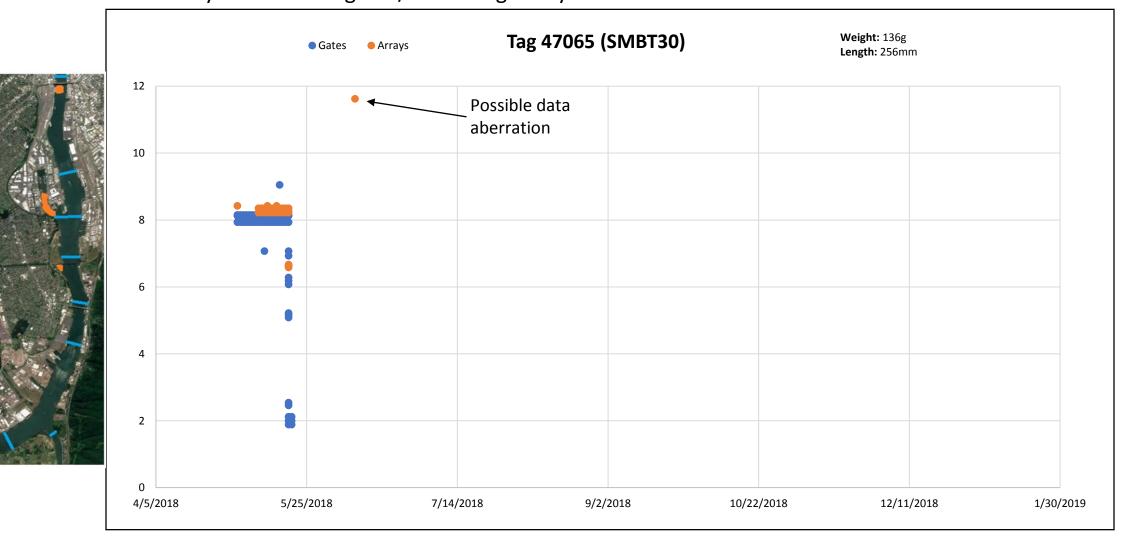


Fish Movement for 47063, Hourly Mean Portland Harbor Superfund Site

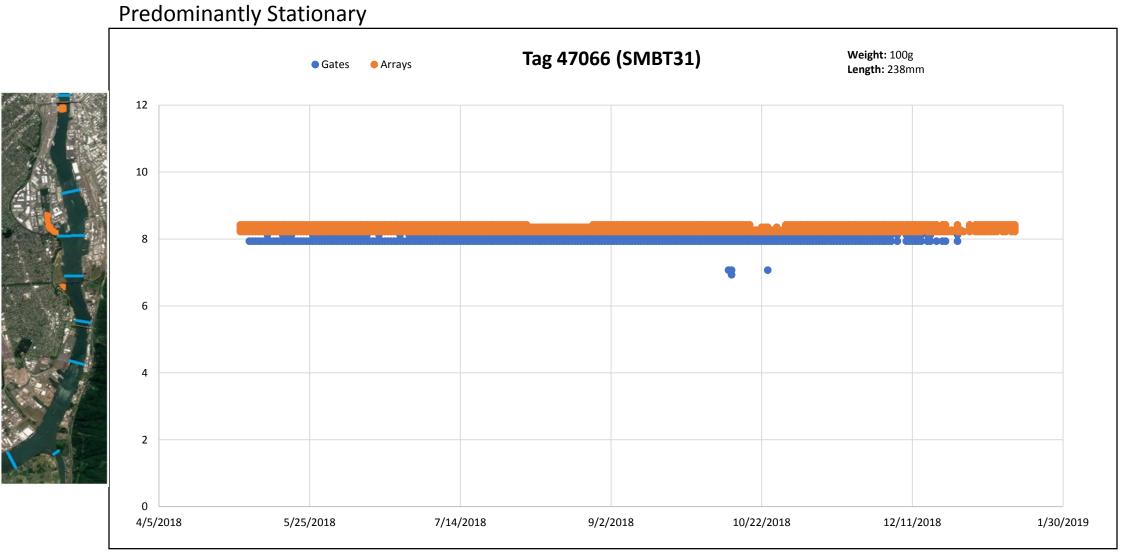




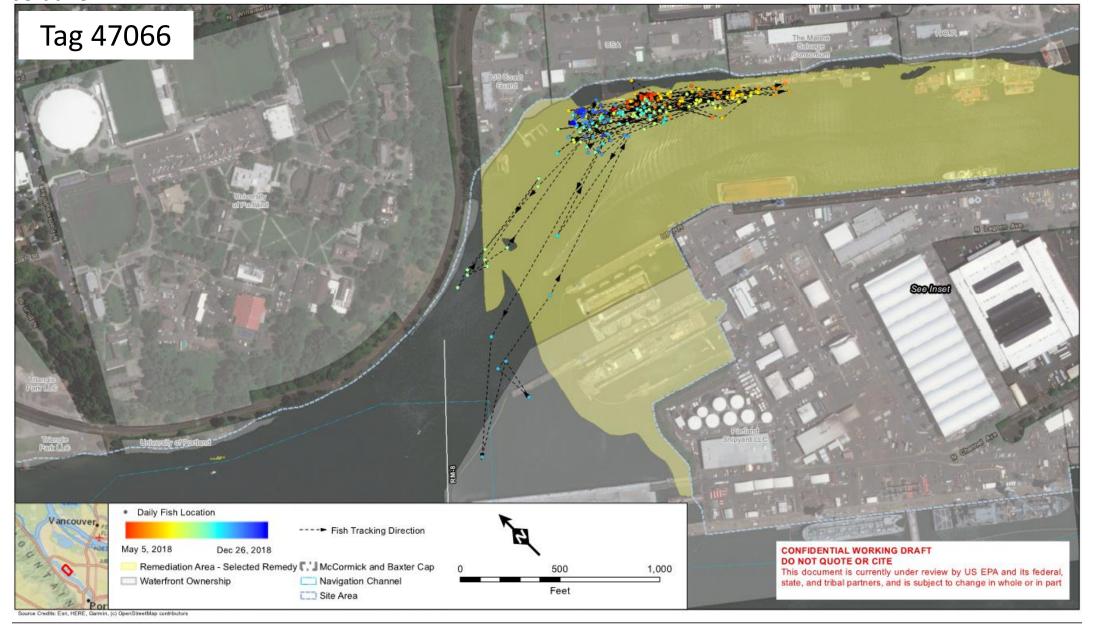
Fish Movement for 47064, Daily Mean Portland Harbor Superfund Site



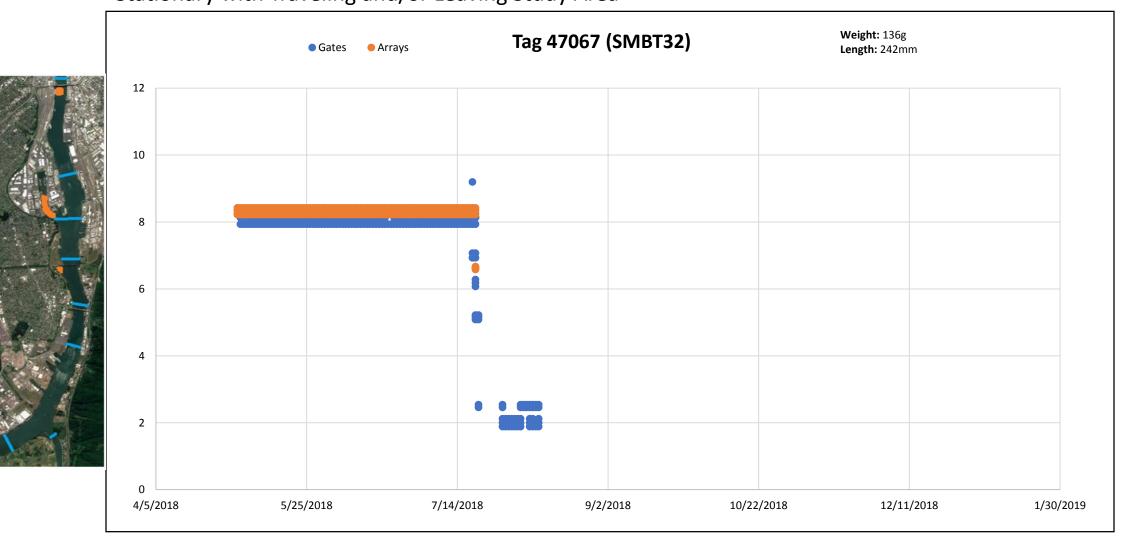
Limited fish location data for 47065 (SMBT30) from the receiver arrays. No location map developed.

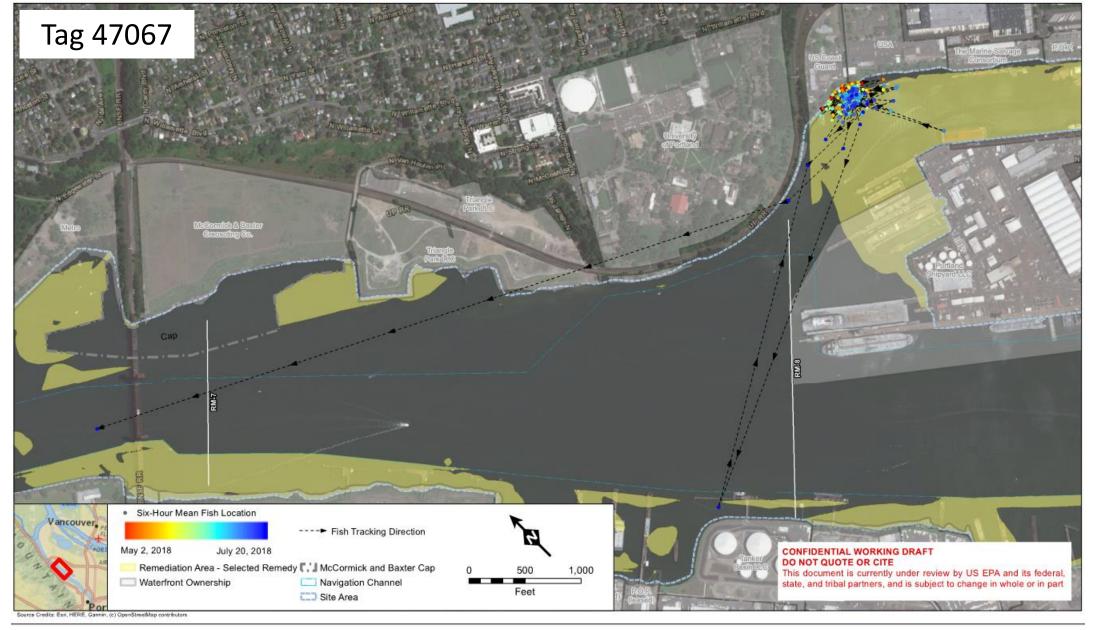


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Fish Movement for 47066, Daily Mean Portland Harbor Superfund Site





Fish Movement for 47067, Six Hour Mean Portland Harbor Superfund Site

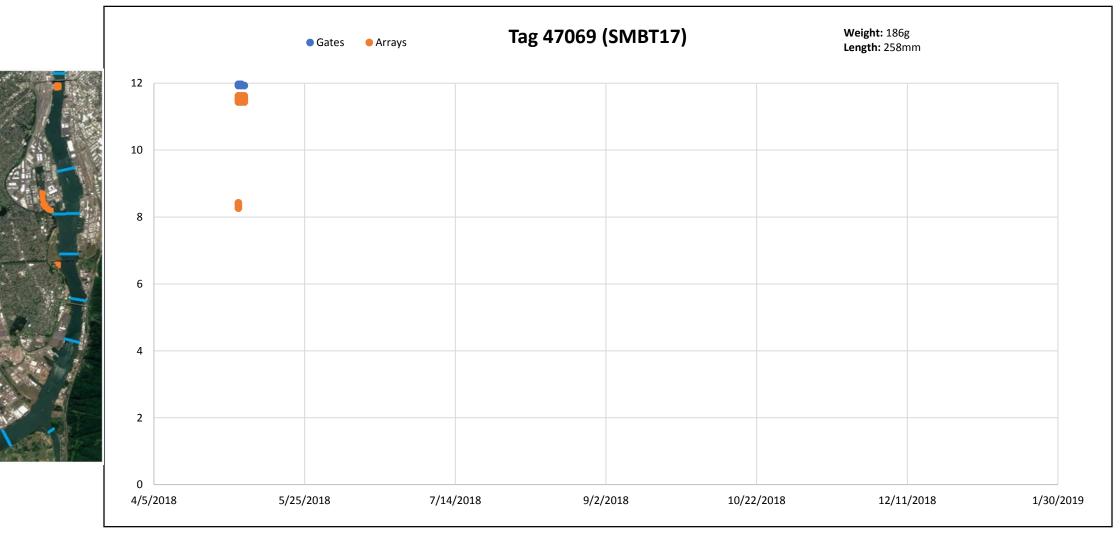
Predominantly Stationary Tag 47068 (SMBT33) Weight: 109g GatesArrays Length: 229mm 12 4/5/2018 5/25/2018 7/14/2018 9/2/2018 10/22/2018 12/11/2018 1/30/2019

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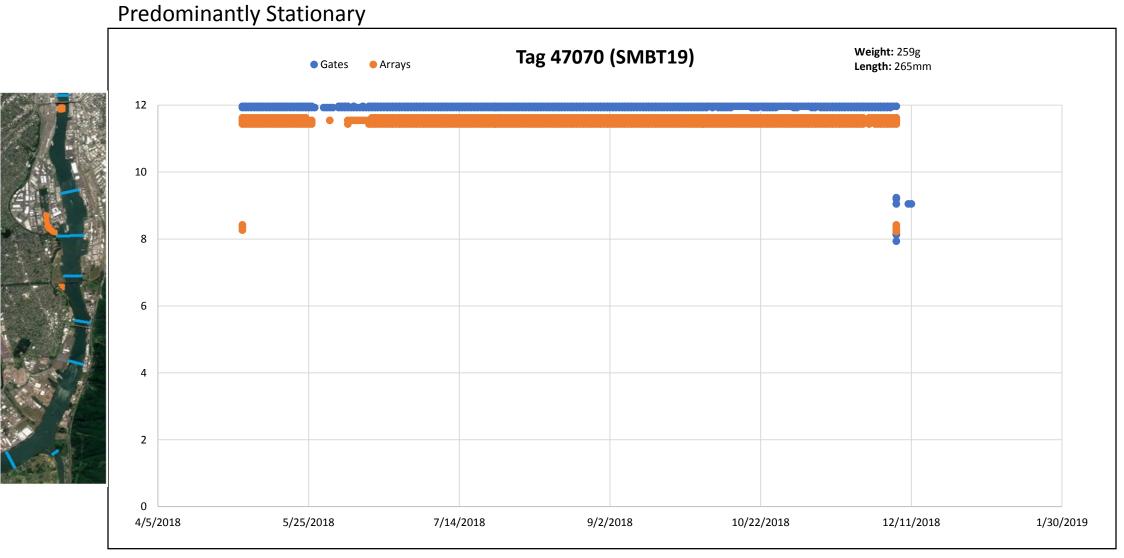


Fish Movement for 47068, Hourly Mean Portland Harbor Superfund Site

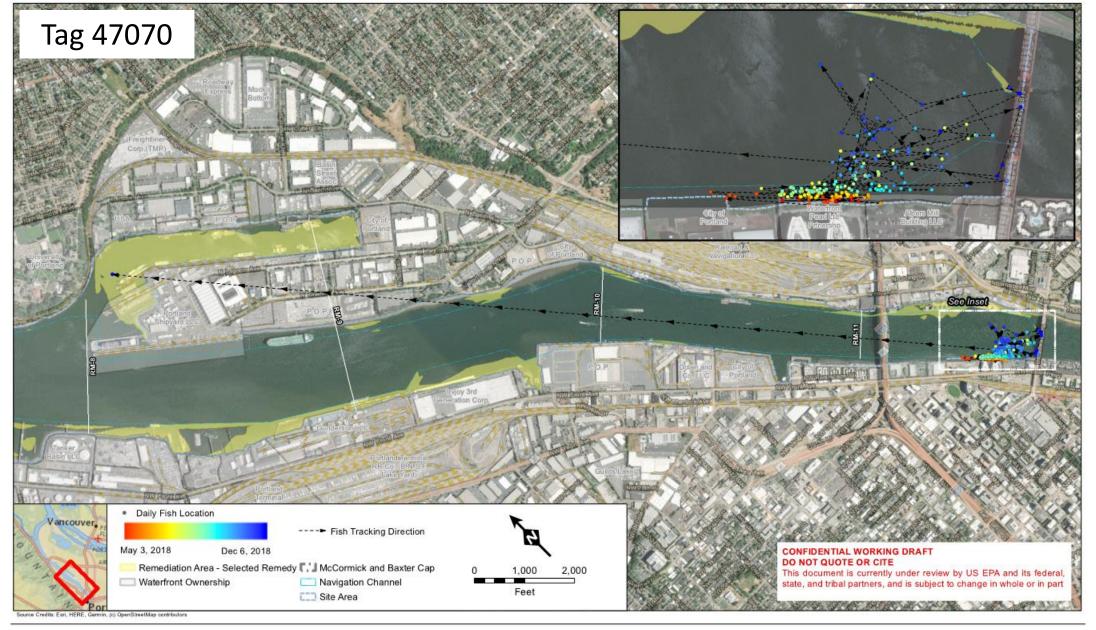
Predominantly Traveling and/or Leaving Study Area



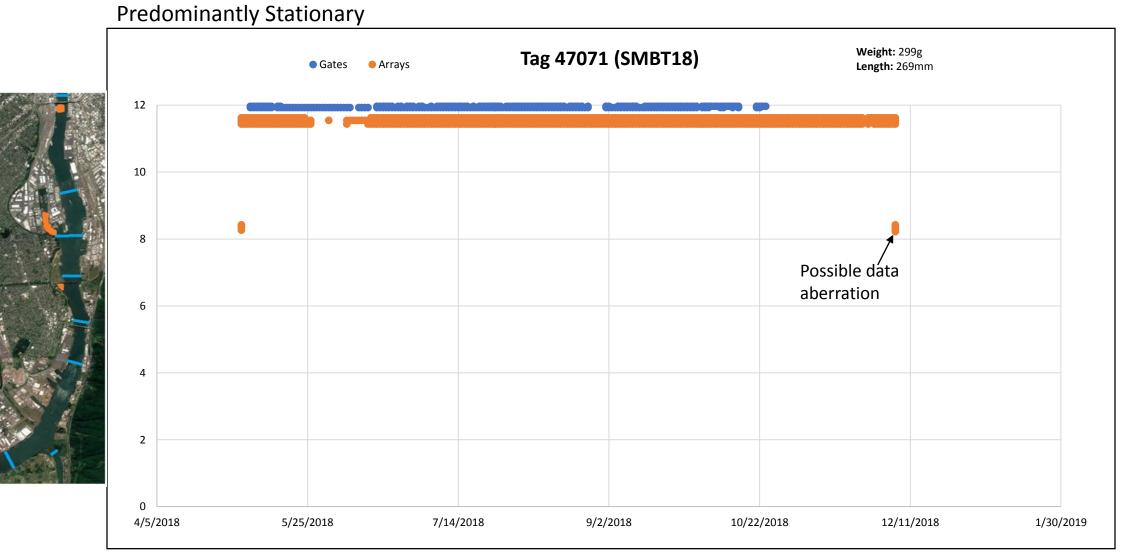
Limited fish location data for 47069 (SMBT17) from the receiver arrays. No location map developed.



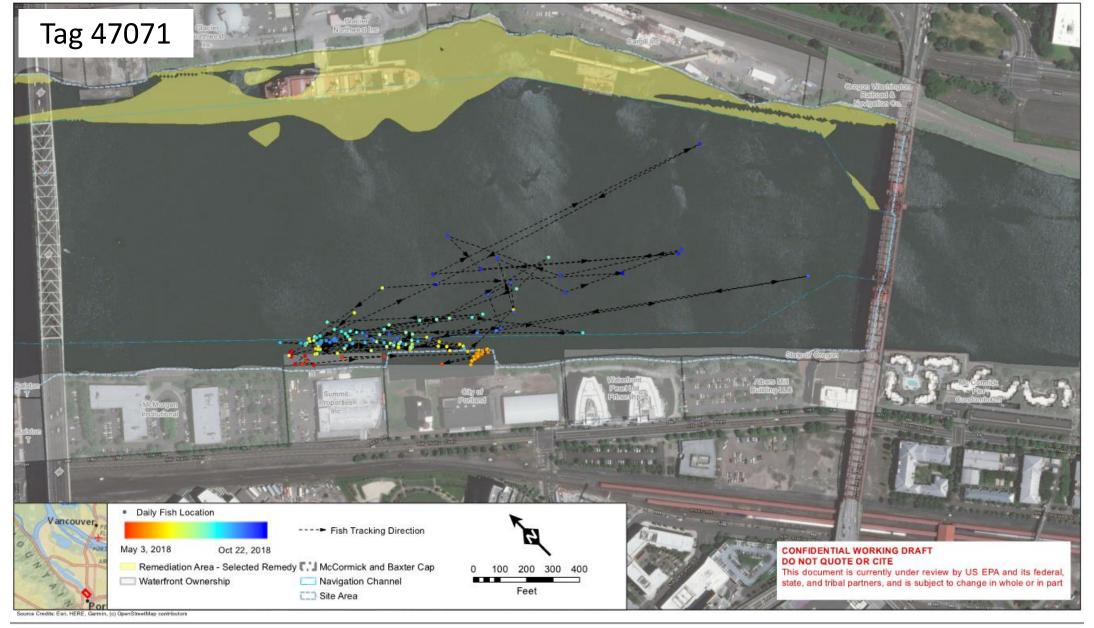
Confidential Working Draft – Do not quote or cite. For internal MOU purposes only.



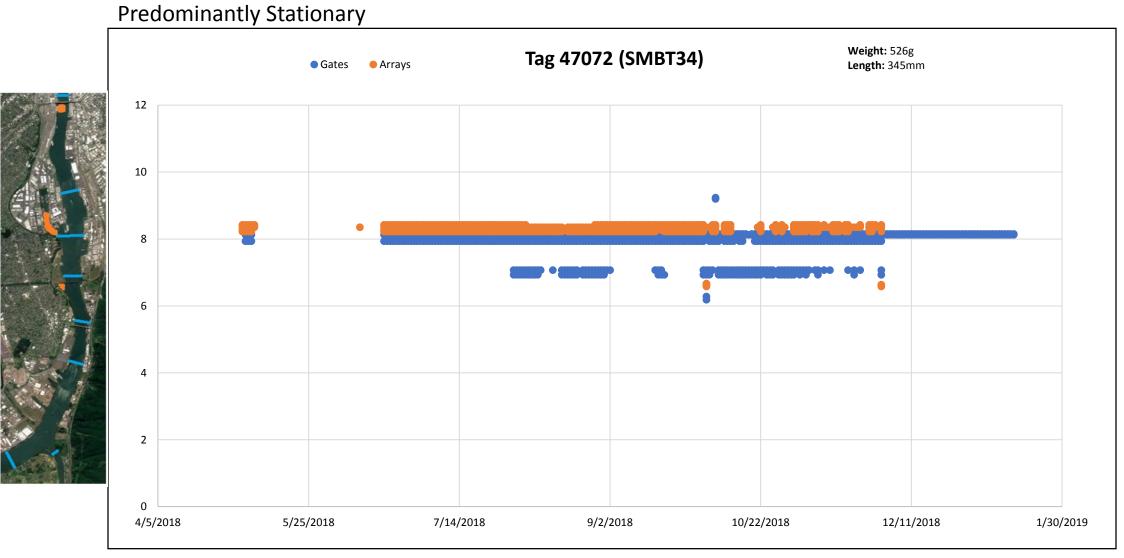
Fish Movement for 47070, Daily Mean Portland Harbor Superfund Site



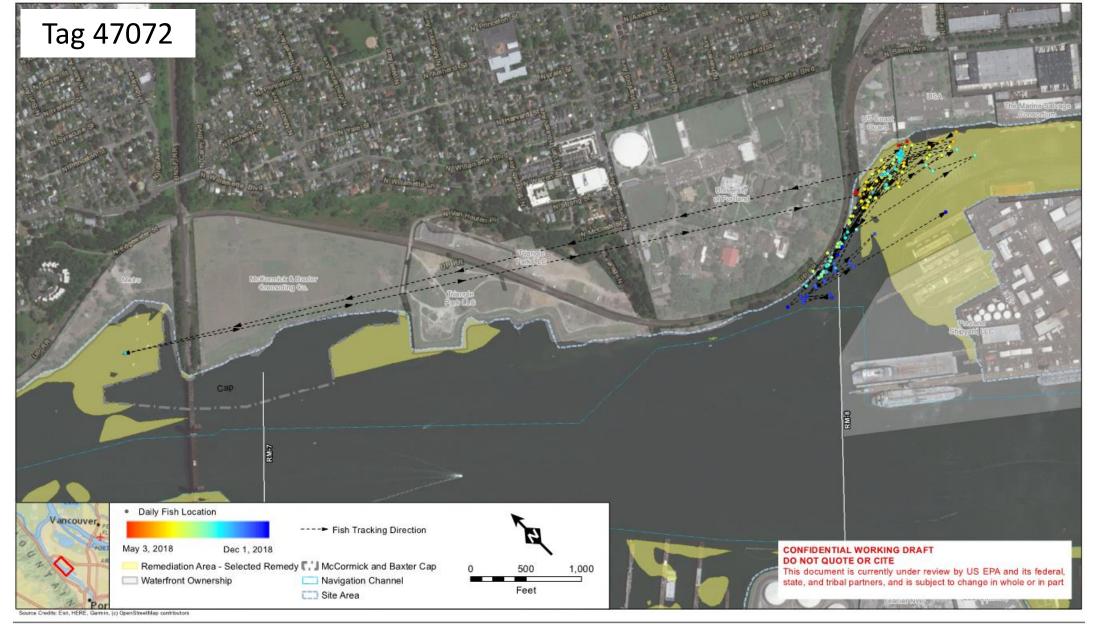
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Fish Movement for 47071, Daily Mean
Portland Harbor Superfund Site



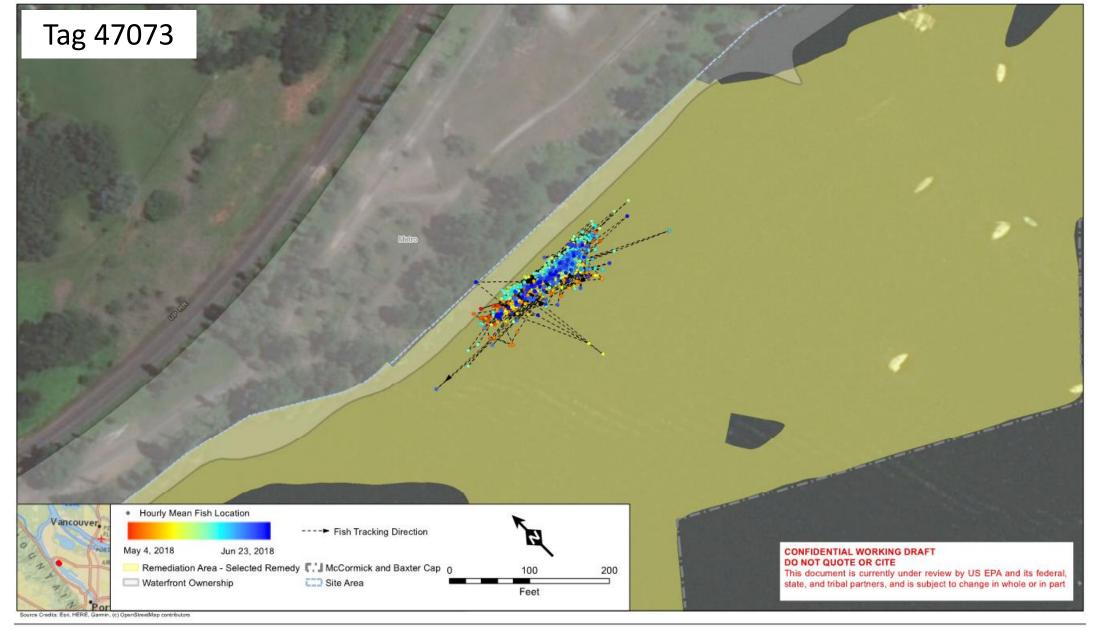
Confidential Working Draft – Do not quote or cite. For internal MOU purposes only.



Fish Movement for 47072, Daily Mean Portland Harbor Superfund Site

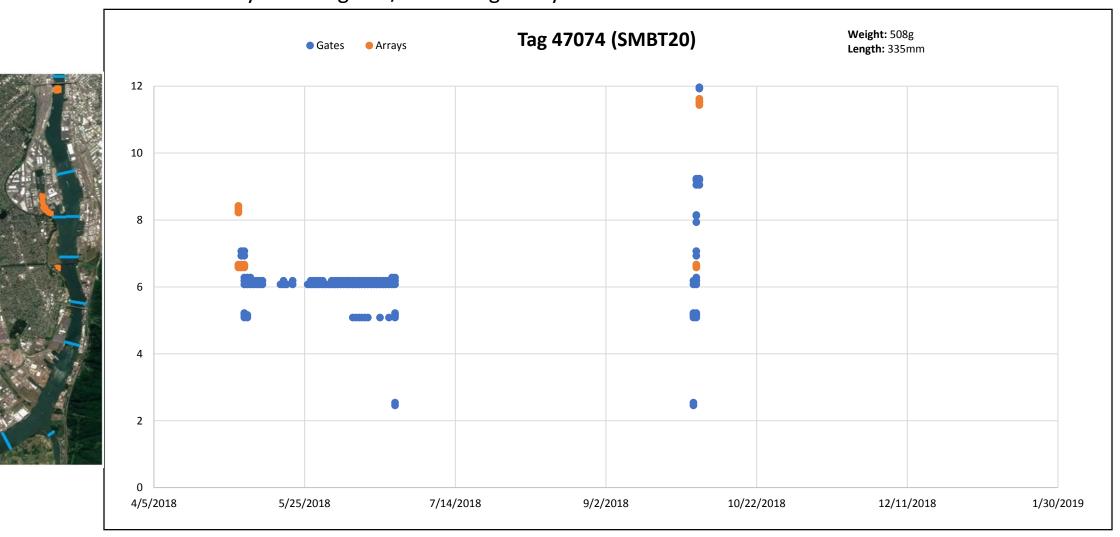
Predominantly Stationary Weight: 200g Tag 47073 (SMBT21) GatesArrays Length: 238mm 12 Possible data aberration 4/5/2018 5/25/2018 7/14/2018 9/2/2018 10/22/2018 12/11/2018 1/30/2019

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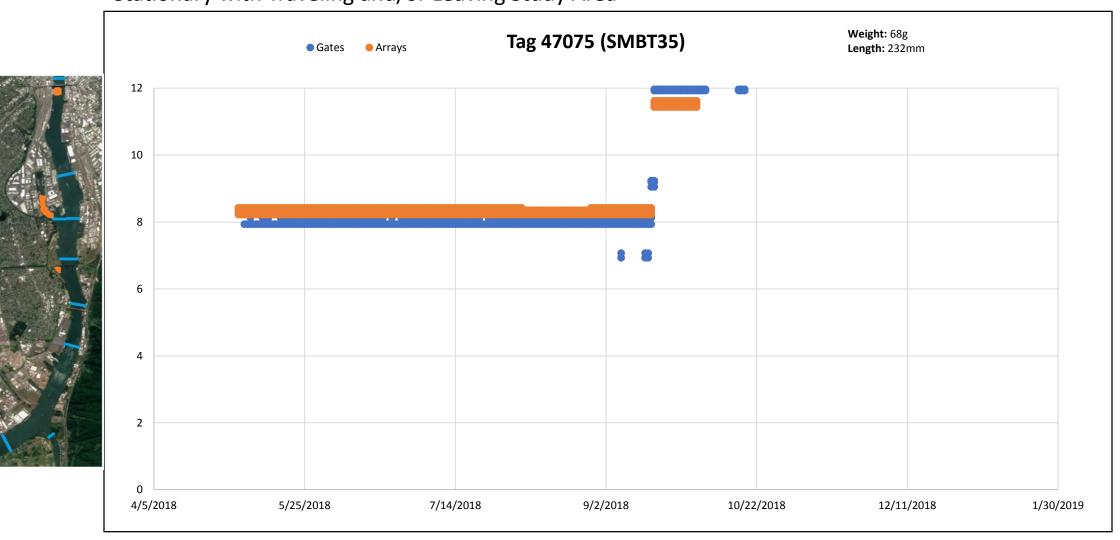


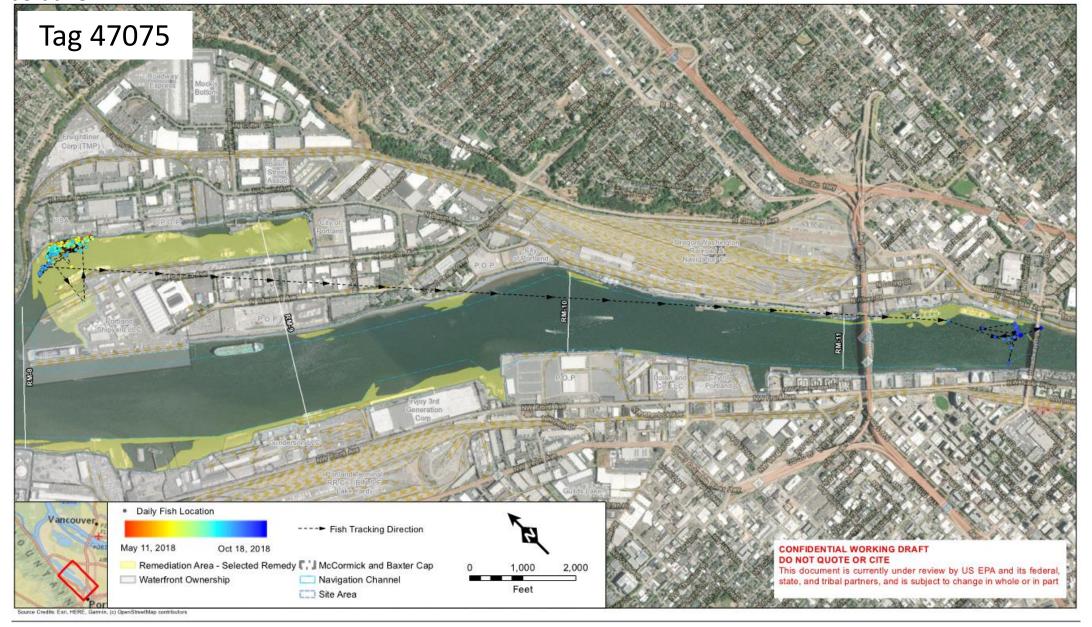
Fish Movement for 47073, Hourly Mean Portland Harbor Superfund Site

Predominantly Traveling and/or Leaving Study Area

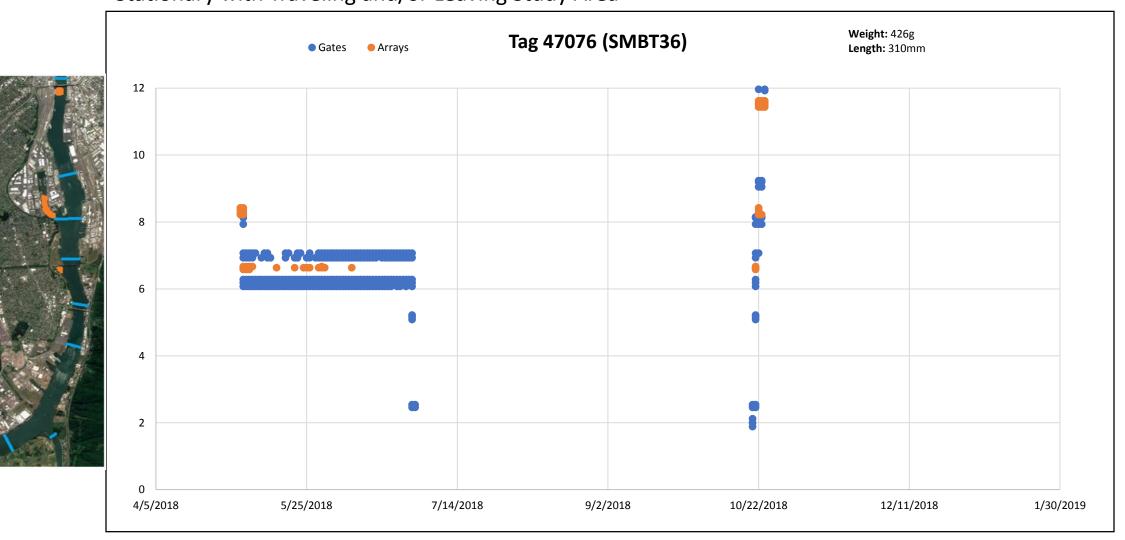


Limited fish location data for 47074 (SMBT20) from the receiver arrays. No location map developed.

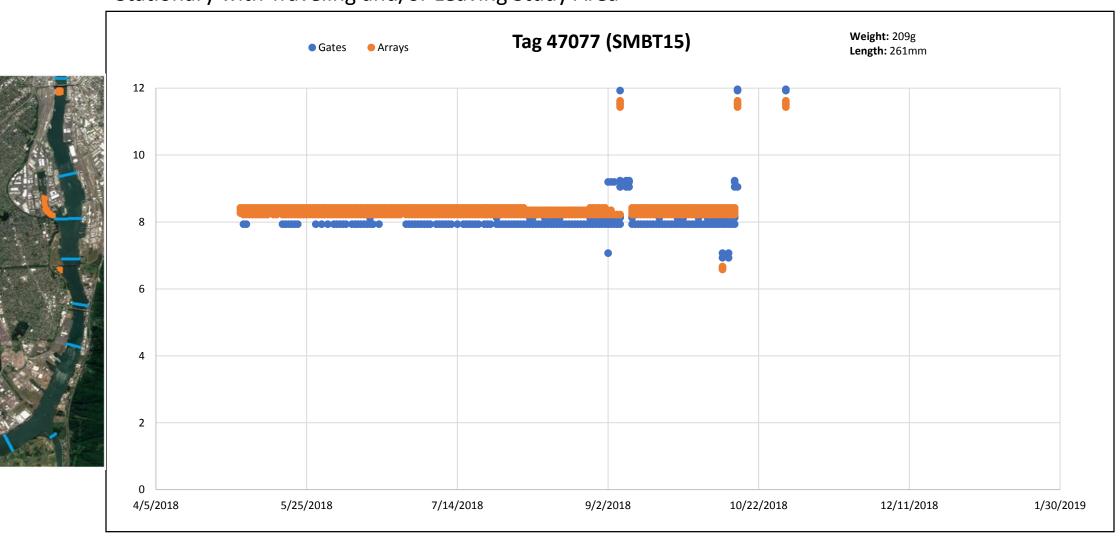


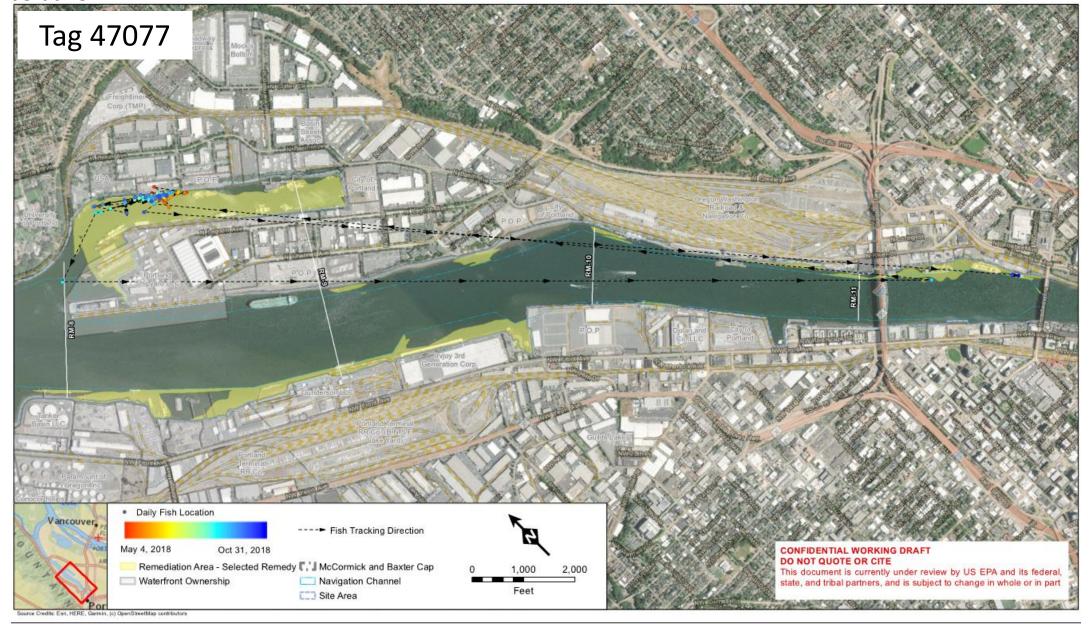


Fish Movement for 47075, Daily Mean Portland Harbor Superfund Site

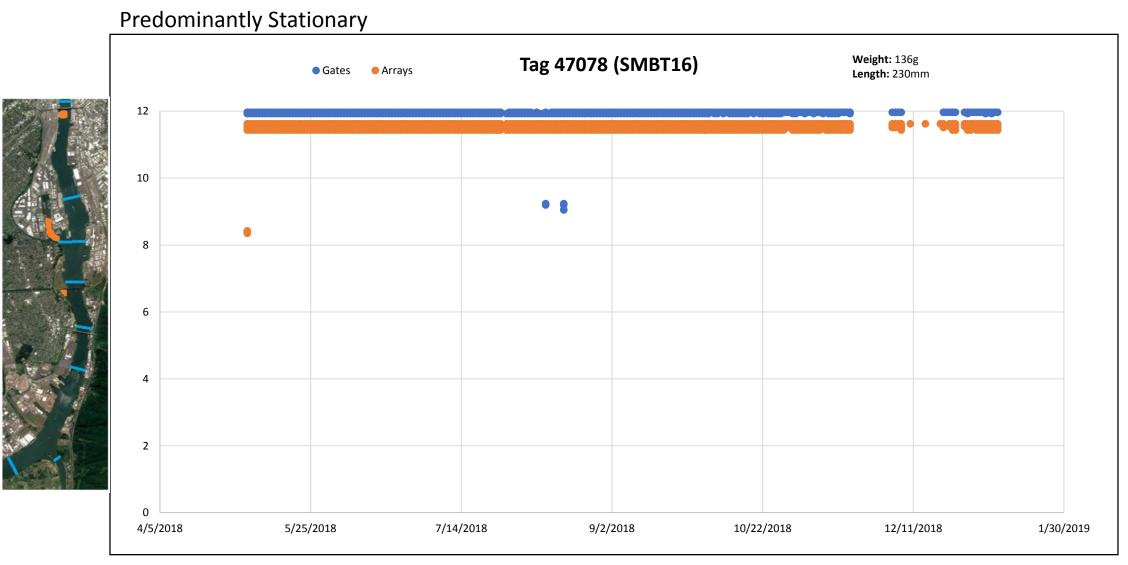


Limited fish location data for 47076 (SMBT36) from the receiver arrays. No location map developed.

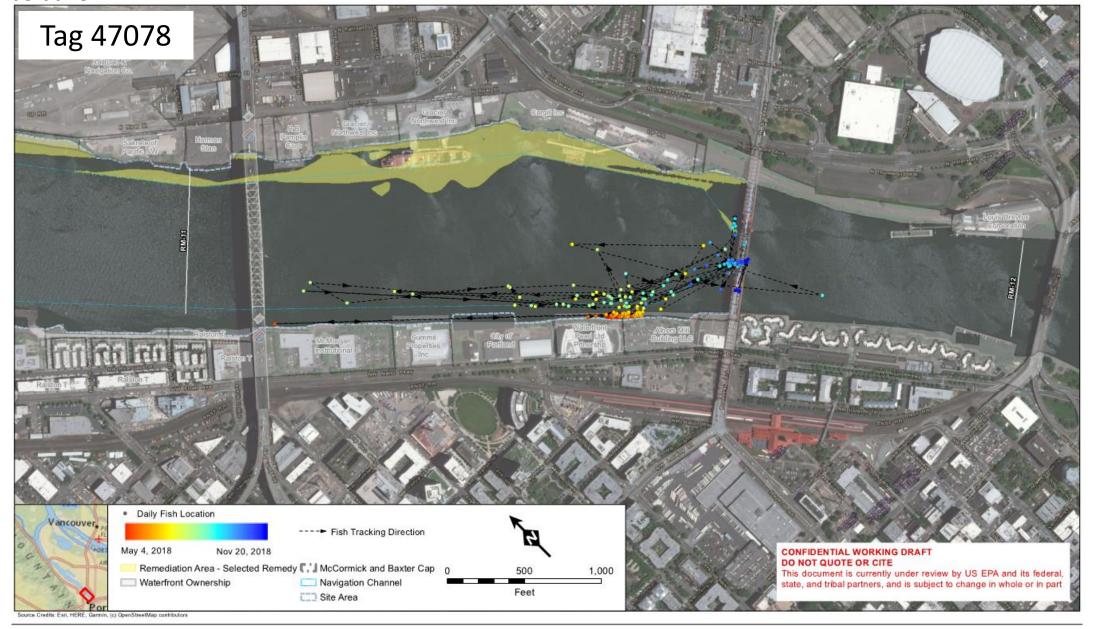




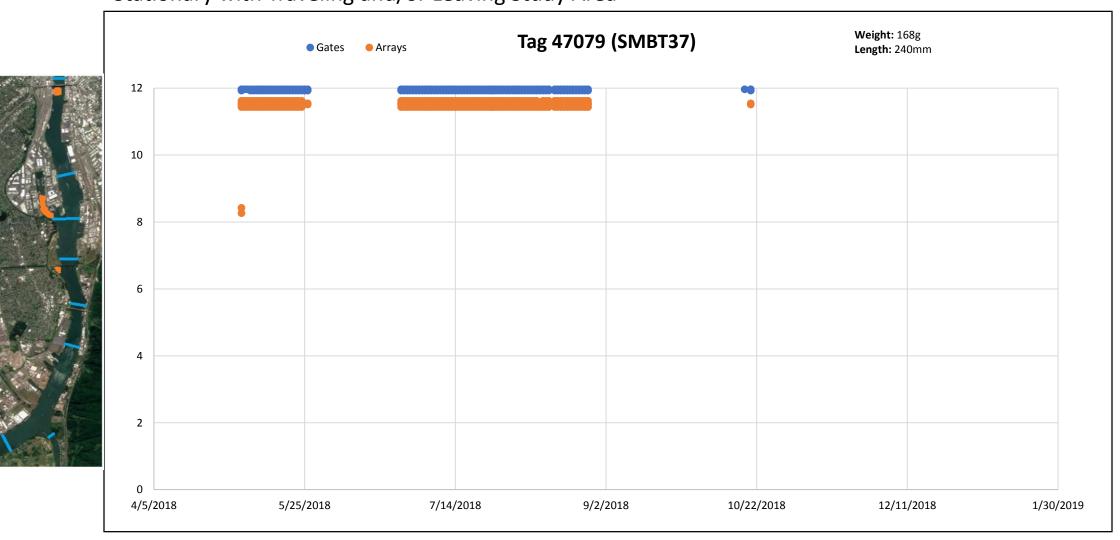
Fish Movement for 47077, Daily Mean
Portland Harbor Superfund Site

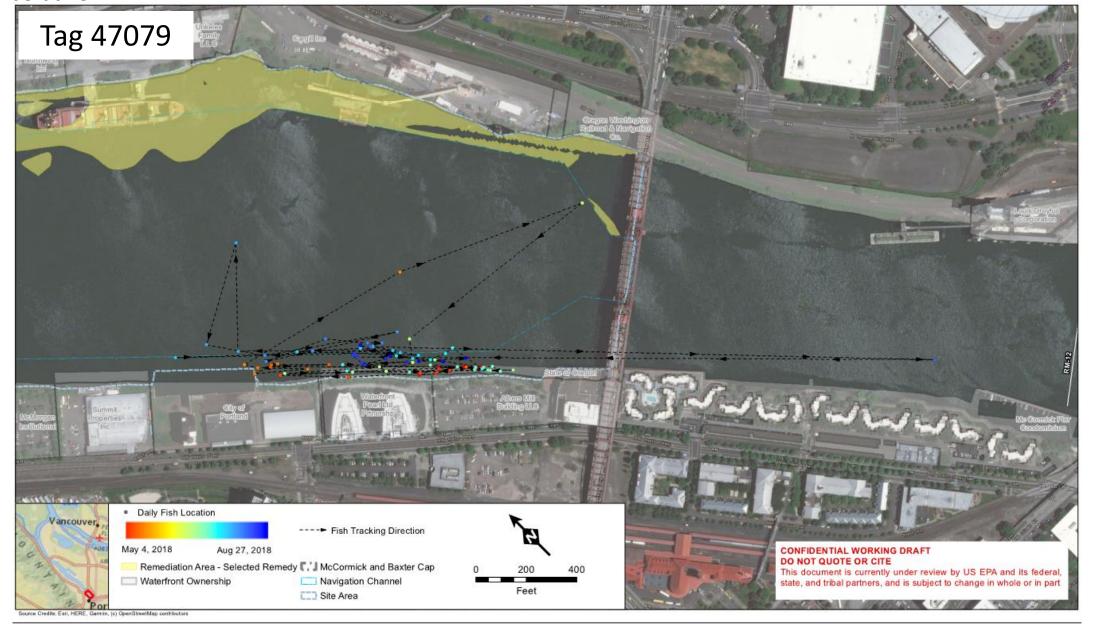


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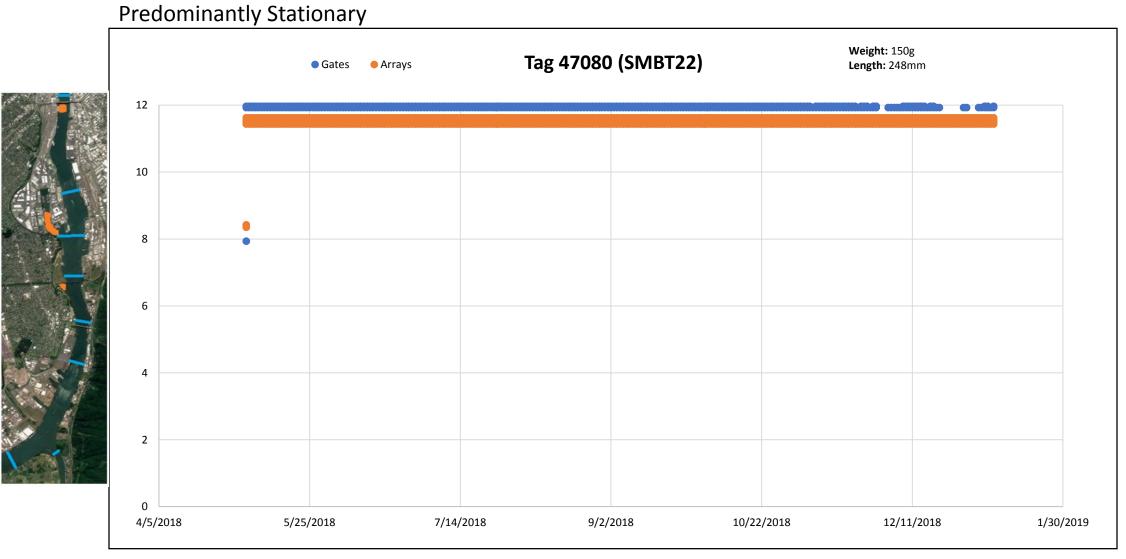


Fish Movement for 47078, Daily Mean
Portland Harbor Superfund Site

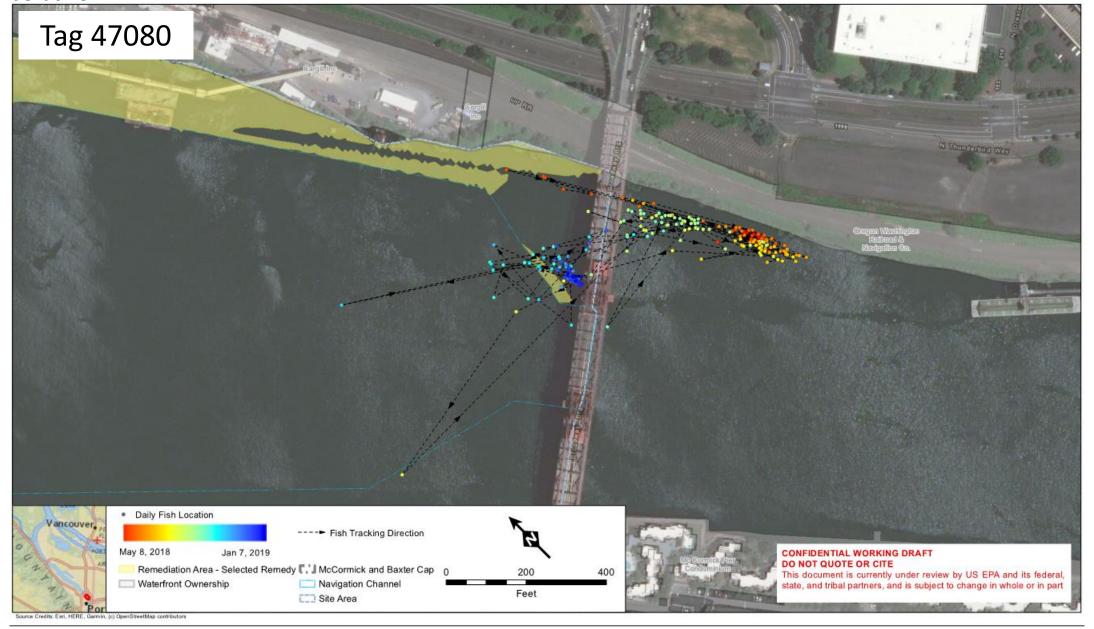




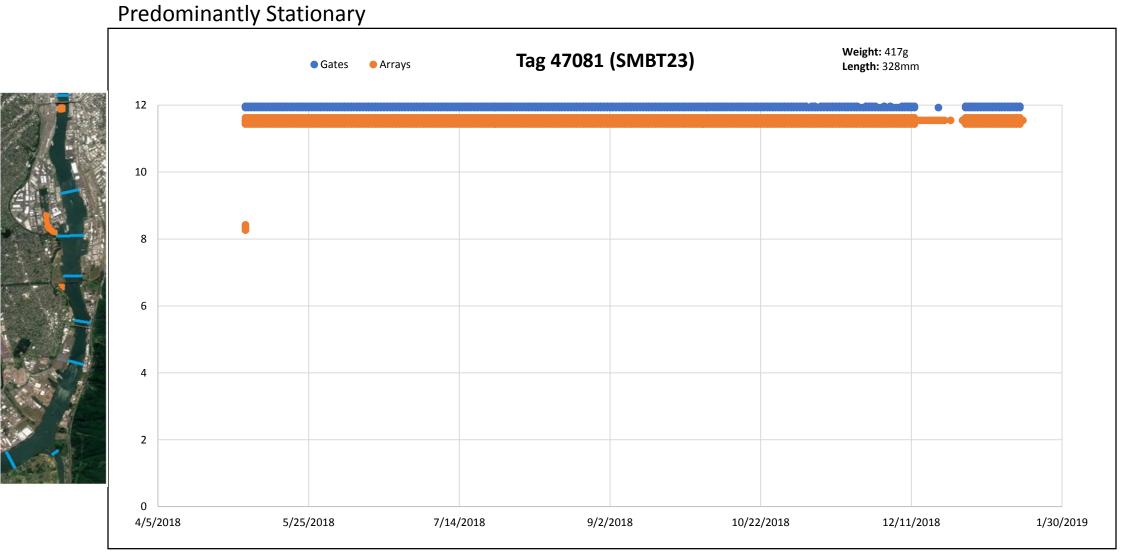
Fish Movement for 47079, Daily Mean Portland Harbor Superfund Site



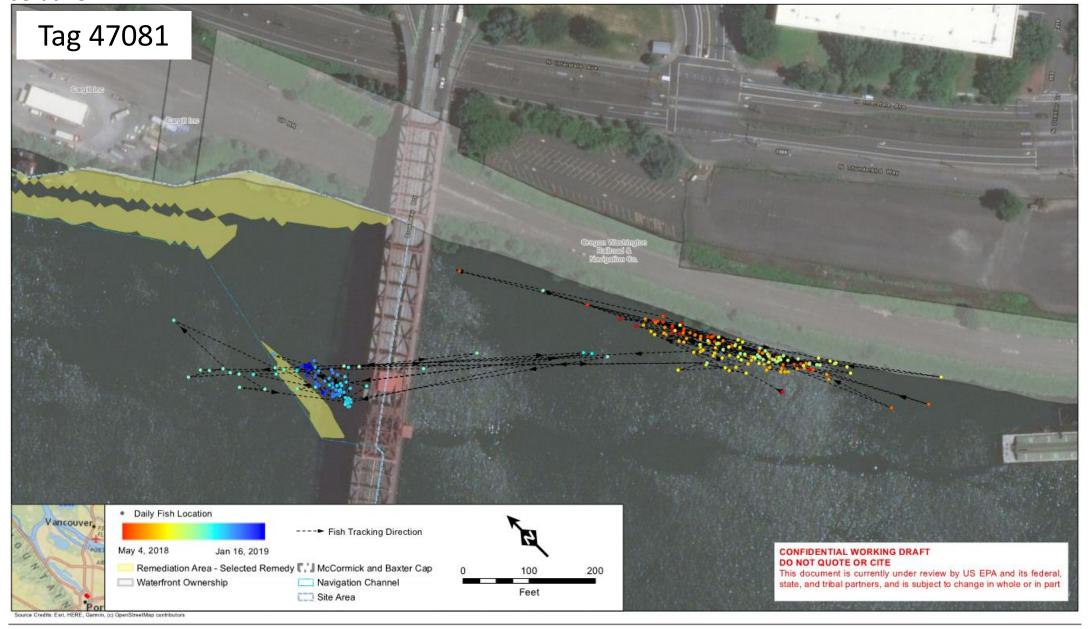
Confidential Working Draft – Do not quote or cite. For internal MOU purposes only.



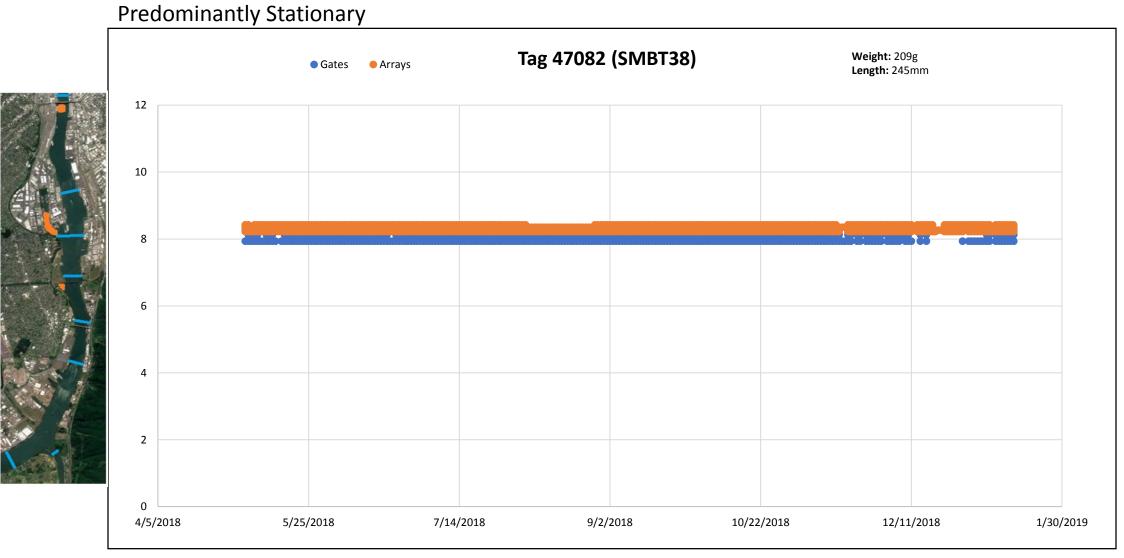
Fish Movement for 47080, Daily Mean Portland Harbor Superfund Site



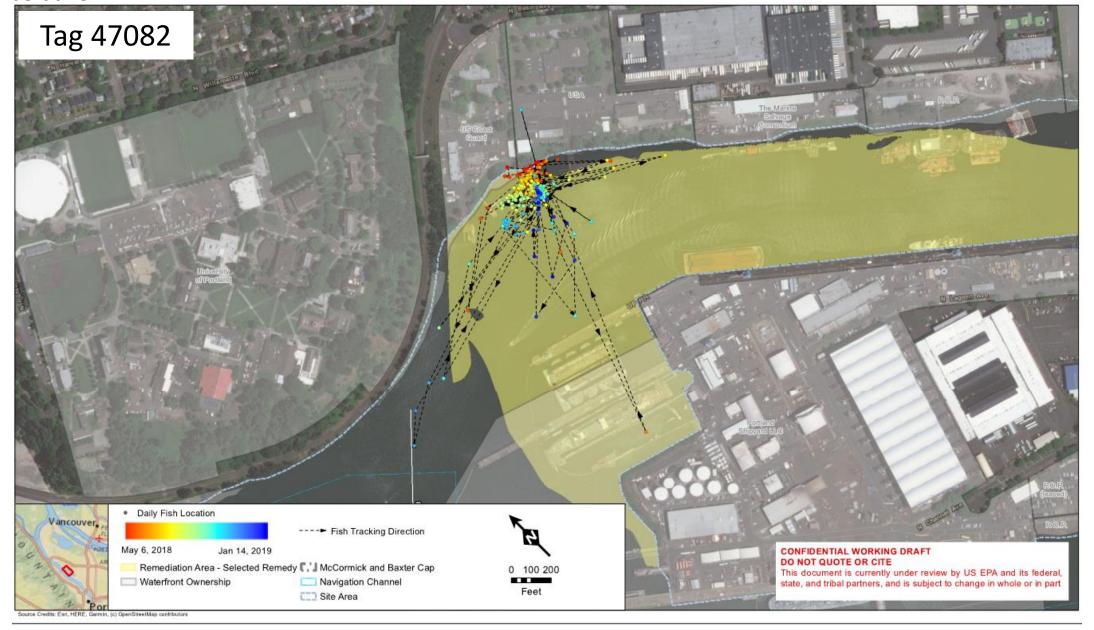
Confidential Working Draft – Do not quote or cite. For internal MOU purposes only.



Fish Movement for 47081, Daily Mean Portland Harbor Superfund Site

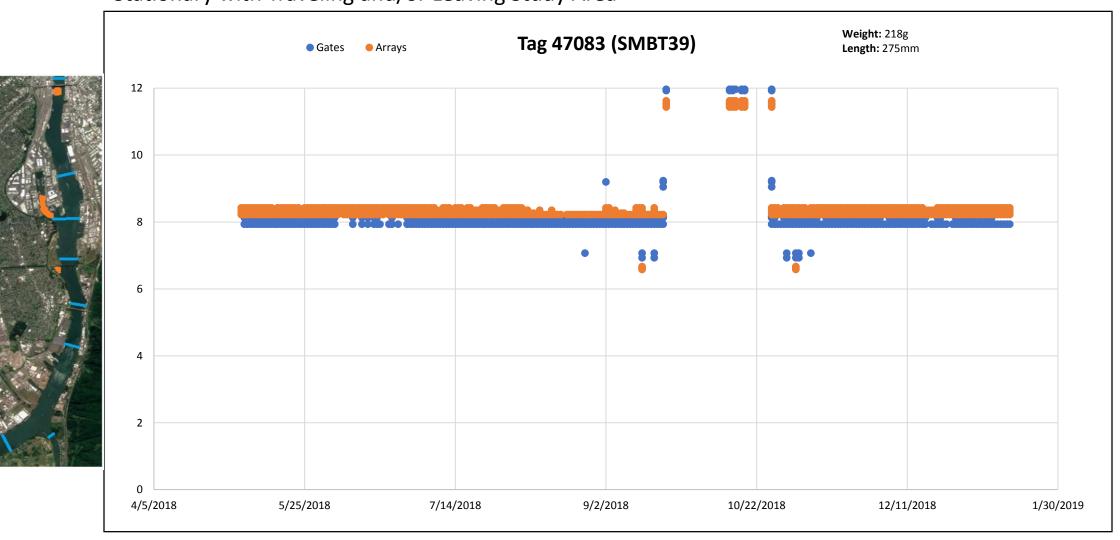


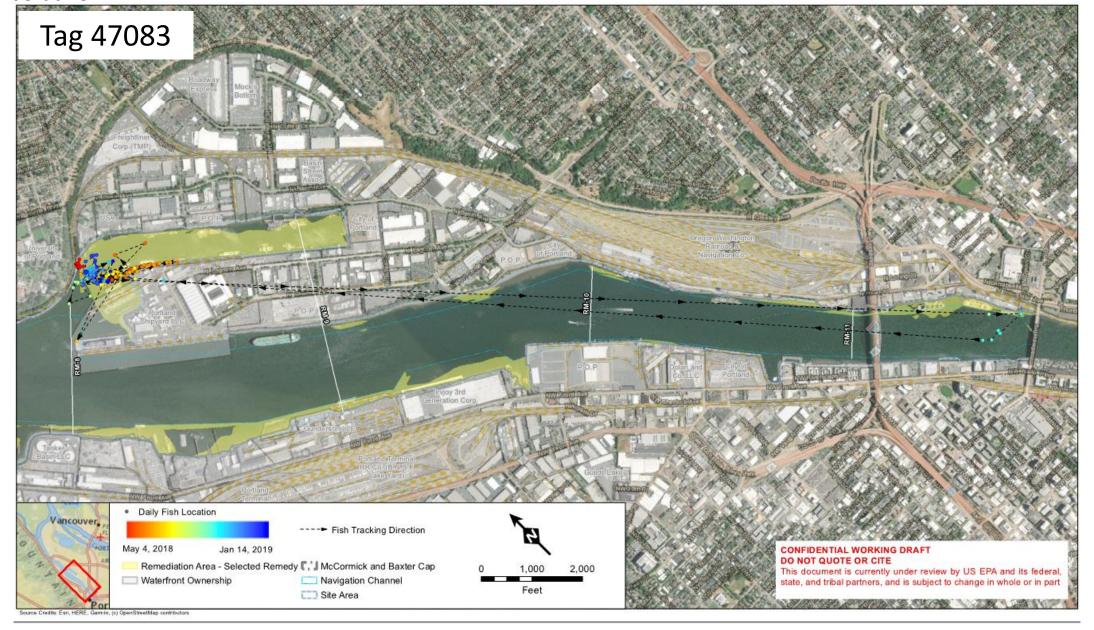
Confidential Working Draft – Do not quote or cite. For internal MOU purposes only.



Fish Movement for 47082, Daily Mean Portland Harbor Superfund Site

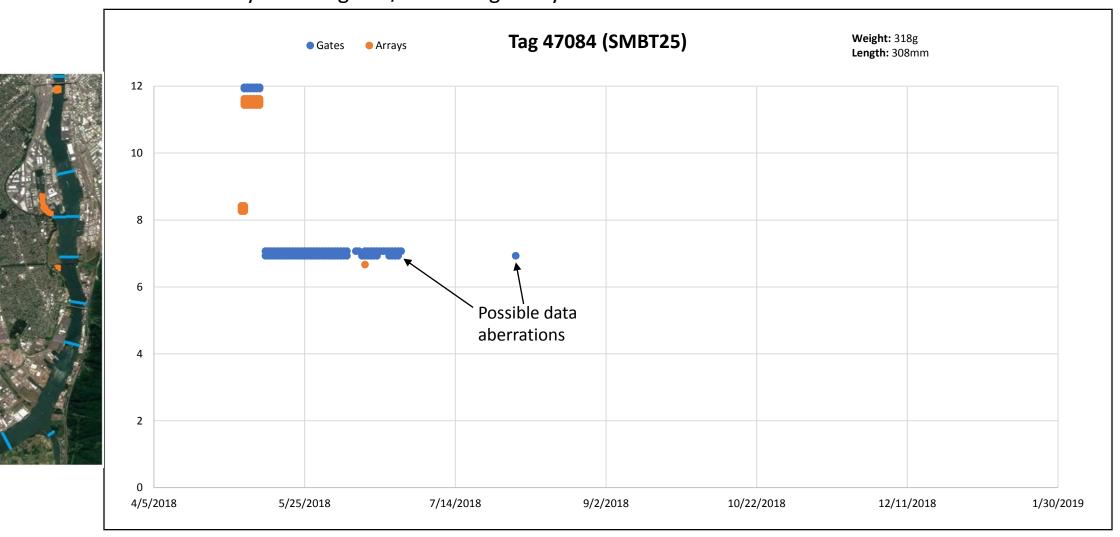
Stationary with Traveling and/or Leaving Study Area



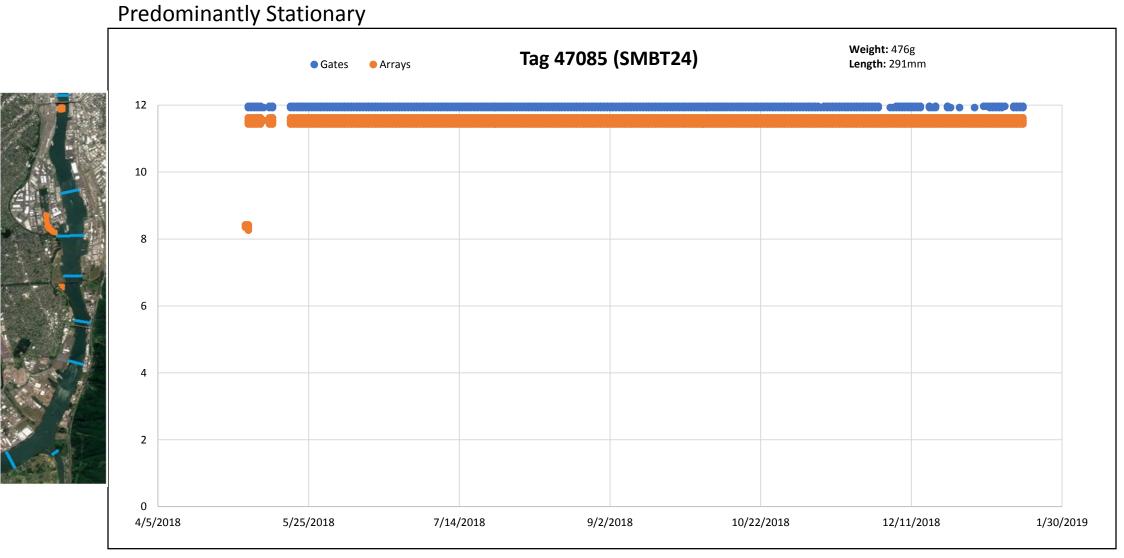


Fish Movement for 47083, Daily Mean Portland Harbor Superfund Site

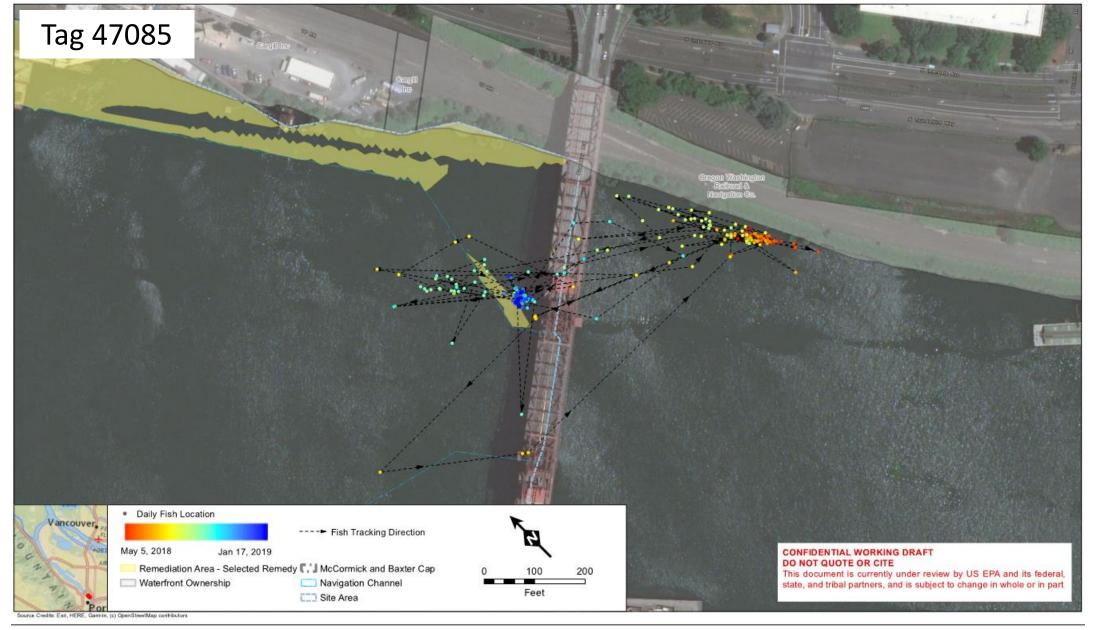
Predominantly Traveling and/or Leaving Study Area



Limited fish location data for 47084 (SMBT25) from the receiver arrays. No location map developed.



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Fish Movement for 47085, Daily Mean Portland Harbor Superfund Site